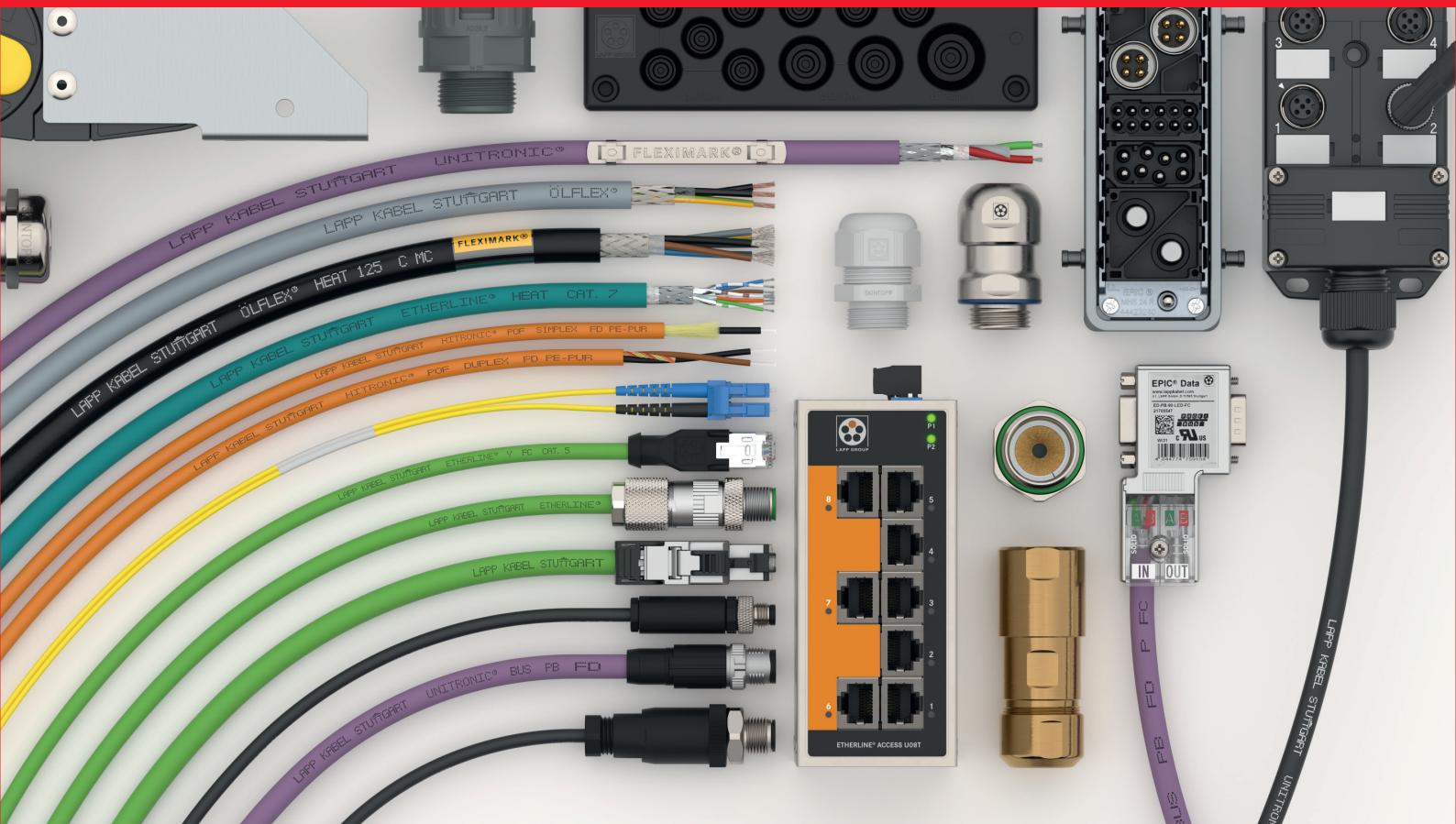




NEW ZEALAND ELECTRICAL PRODUCT SELECTION GUIDE

CABLES / ACCESSORIES / SWITCHGEAR / SOLAR / AUTOMATION



LAPP

ABB

MOXA

wieland



ecs

FOR INDUSTRY

Established in 1983, we are proud to be a family-owned New Zealand company, spanning two generations. From humble beginnings designing and manufacturing automated machinery, we've grown to support key industries such as dairy production and construction, with innovative, purpose-built solutions.

Our relationships with our suppliers such as LAPP in Germany was initiated through our own demand for high quality products for our production.

Over the last 40 years ECS has evolved from a manufacturing company to a market leading supplier of electrical and automation products. We are now the exclusive distributors in New Zealand for world leading manufacturers such as LAPP, Wieland Electric, Wago, MOXA Networking and ABB LV Switchgear.

At ECS we strive to offer the best customer service in the industry. When you phone us you will go straight through to our sales team who are made up of trained electricians and

automation engineers. We are not just order takers; we are able to guide you through our products so you can select the right product to suit your requirements.

In 2012 we moved into a purpose built 2500m² warehouse, specifically designed to suit our requirements. Located in Hamilton where we stock 5000 different parts and over 1 million metres of cable, in our 5000m² warehouse, we are committed to holding the right products for you.

Over the course of 2015 we more than doubled the size of our warehouse giving us the ability to hold greater stock quantities and much larger cable sizes.

With our well established logistics network, we are able to deliver products to customers from Kaitaia to Invercargill in just one working day. Linking with our supplier's warehouses around the world, if customers are working overseas we are able to drop-ship directly to site anywhere in the world while handling all the paperwork back here in New Zealand.

ECS is an expanding and adapting company; we are consistently adding new products to our line-up based on customers' requirements. We strive to offer you a complete package for all your electrical and automation requirements.



OUR WORLD LEADING BRAND PARTNERS

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 **ABB**

 **MOXA**

 **wieland**

 **WAGO**

 **icotek®**

PCE

 **RITTAL**

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ECS is an ever expanding company; we are consistently adapting and adding new products to our line-up based on customer requirements.

We strive to offer all of our customers a complete package for all their electrical and automation requirements. We are distributors of world leading manufacturers such as LAPP, Wieland Electric, MOXA Networking, ABB and much more.

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From Power & Control to Ethernet & Fibre, we've got the variety, quantity and the quality your industry demands.



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We supply to a diverse range of engineers, technicians, installers and OEM's in the Electrical & Automation industry.

5,000m² Warehousing

To keep up with demand we doubled the size of our warehouse providing stockholding for now and the future.





THE COMPLETE LAPP PRODUCT RANGE THAT GUARANTEES PERFORMANCE WITHOUT COMPROMISING ON QUALITY



ÖLFLEX® Power and control cables

ÖLFLEX® has become synonymous with power and control cables. Our flexible and oil-resistant cables satisfy the highest demands and can withstand even the very toughest conditions.



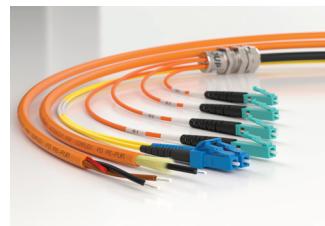
UNITRONIC® Data communication systems

Our high-quality UNITRONIC® data network cables and field bus components provide a forward-looking solution for all applications in industrial machinery and plant engineering. From transmission of simple control signals to field bus signals in complex network structures – we offer a dependable cabling and connection solution for almost every situation.



ETHERLINE® Data communication systems for ETHERNET technology

Our ETHERLINE® branded products open up a secure, fast and reliable path to the future of Ethernet applications. The systems are made up of durable and robust cables and connection components for passive network technology, and deliver an effective solution for almost any application, particularly in an industrial environment.



HITRONIC® Optical transmission systems

HITRONIC® fibre optic cables make transmitting large data volumes easy: fault free, bug proof and at almost light speed. Even electromagnetic radiation does not interfere with the transmission. The HITRONIC® range includes the ideal solution for indoor or outdoor use, for demanding conditions, and even for use in power chains.



EPIC® Industrial connectors

EPIC® industrial connectors can be found everywhere in industrial machinery and plant engineering, for measuring, control and drives. EPIC® is a flexible system of housings, inserts and contacts: all extremely robust, absolutely safe and simplicity itself to assemble.



SKINTOP® Cable glands

Simply feed in the cable and twist. That's it. Our SKINTOP® cable glands provide secure connections in no time. The universal systems are simple but effective. They secure and centre the cable, hermetically seal it and guarantee optimum strain relief.



SILVYN® Protective cable conduit systems and cable carrier systems

The universal range of SILVYN® protection and guidance systems protect cables effectively against dust, moisture, mechanical, thermal and chemical influences. The versatile SILVYN® CHAIN range of energy supply chains also protects and guides cables in dynamic applications.



FLEXIMARK® Marking systems

The requirement: permanent marking. The solution: FLEXIMARK®. These sophisticated systems mean that a clear overview inside a control cabinet is no longer just a pipe dream. From simple labels for manual marking through to electronic markings, the FLEXIMARK® range is guaranteed to be permanent.

CENTRE FOR COMPETENCE & QUALITY TESTING

THE LAPP CENTER FOR COMPETENCE AND INNOVATION IS A KEY ASSET IN THE DEVELOPMENT OF INDUSTRY LEADING AND INNOVATIVE SOLUTIONS FOR OUR CUSTOMERS.

Underwriters Laboratories Inc. completed an assessment of our Florham Park, New Jersey facility for the UL Data Acceptance Program as a UL Client Data Program laboratory. This means the equipment and test methods have been certified to precisely meet the same requirements as at UL test facilities. We validate designs of high performance Industrial Cables, Industrial Connectors, Strain Relief Cable Glands and Accessories through continuous testing. Some of the testing taking place at our state-of-the-art laboratory include:

Flame Testing (USA)

SCOPE

To evaluate flame resistance characteristics of Lapp wire and cable and insure that the products do not propagate flame or spread burning particles within the specified application.

These tests are performed to verify compliance with Lapp Flame Resistance Cable Attributes, Industry Tests and Safety Agency Standards.

TECHNICAL DETAIL

Multiple samples are cut to a specified length and then a Kraft paper flag is applied to each specimen. The samples are hung vertically in the support apparatus within the flame chamber. The test is performed in chamber which is completely sealed and free from any air drafts. An application of flame is directly applied to the sample in such a manner that flame traverses upward towards the Kraft paper flag. After the specified flame application cycle, the flame is removed for a specific time duration.

This cycle may be repeated several times. Failure occurs if the sample does not self-extinguish, or if falling burning particles ignite the chamber-floor bedding, or if the Kraft paper flag has been burnt.

Endurance Testing (GERMANY & FRANCE)

SCOPE

To evaluate how flexible cables will perform in permanent flexing installations. This test is used to quality check existing cables, and to develop and test new products before they enter mass production.

Regular flexible (OLFLEX CLASSIC 110) and super flexible (OLFLEX FD, UNITRONIC FD) cables are testing with this process.

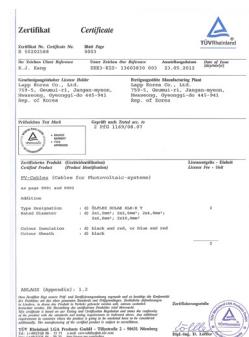
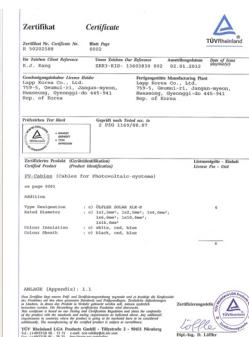
TECHNICAL DETAIL

Cables are tested on a variety of linear test rigs which test specific endurance flexing scenarios. The 5m linear test rig runs cables at a speed of 6m/s and repeats 20,000 times per day. The 20m linear test rig runs cables at a speed of 6m/s and repeats 5,000 times per day. The 55m linear test rig runs cables at a speed of 5m/s and repeats 1,500 times per day.

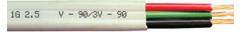
Failure occurs if any conductor in the cable loses electrical continuity during the test. Cables are disassembled/dissected after the test to check how specific materials performed to check any wear and tear to the internal of the cable.

Independantly Tested OUR INTERNATIONAL QUALITY CERTIFICATE

Almost all of our products are certified, as is our company. Certification is always awarded by an independent authority. In doing so, all the quality-relevant factors are thoroughly examined, in particular, reliability, safety and possible danger, health-hazard or environment aspects. Certificates are both quality certificates as well as certificates of non-objection and technical "passports" for international use.



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V90HT Appliance Wire

TINNED CONDUCTORS WITH 1000V RATING

#292



SEARCH ON EXPRESS.ECSNZ.COM

Construction

» Flexible Class 5 fine wire stranding, PVC insulation, tinned copper conductor.

Temperature Rating

» -20°C to +105°C

Nominal Voltage

» 600/1000V

Test Voltage

» 3000V

Conductor	0.5mm ²	0.75mm ²	1mm ²	1.5mm ²	2.5mm ²	4mm ²	6mm ²	10mm ²	16mm ²
Cable OD	2.55mm	2.75mm	2.95mm	3.25mm	3.7mm	4.3mm	4.9mm	6.5mm	8.4mm
Earth	3801000	3801010	3801020	3801030	3801040	3801050	3801060	3801070	
Black	3801001	3801011	3801021	3801031	3801041	3801051	3801061	3801071	3801081
Red	3801004	3801014	3801024	3801034	3801044	3801054	3801064	3801074	3801084
White	3801005	3801015	3801025	3801035	3801045	3801055	3801065	3801075	3801085
Blue	3801004	3801014	3801024	3801034	3801044	3801054	3801064	3801072	3801082
Brown	3801003	3801013	3801023	3801033	3801043	3801053	3801063		3801083
Grey	3801006	3801016	3801026	3801036	3801046	3801056			
Orange	3801009	3801019	3801029	3801039	3801049				
Violet	3801007	3801017	3801027	3801037	3801047				
Pink	3801008	3801018	3801028	3801038	3801048				
Yellow	38010011	38010111	38010211	38010311	38010411				

CURRENT RATINGS FOR V90HT APPLIANCE WIRE

Conductor cross-sectional area	Spaced		Spaced from surface		Touching		Enclosed		Single Phase Voltage Drop
	10	10	100	100	10	10	100	100	
mm ²	A	A	A	A	A	A	A	A	mV/A/m
1	18	18	18	15	14	14	14	12	54
1.5	23	22	23	19	18	18	14	15	34.6
2.5	33	32	32	28	25	25	18	22	18.9
4	44	42	43	36	34	34	24	29	11.7
6	56	54	54	46	44	44	33	37	7.9
10	76	74	74	64	59	59	42	52	4.7
16	101	98	98	85	79	79	58	68	2.9

These ratings are based on an ambient air temperature of 30°C, and an ambient soil temperature of 15°C at 0.5m depth.

LSZH Tinned Appliance Wire 110 Degree

LOW SMOKE, HALOGEN-FREE, HIGH TEMPERATURE, FLAME RETARDANT FLEXIBLE CABLES

#6



SEARCH ON EXPRESS.ECSNZ.COM

Construction

Flexible tinned copper wire stranding class 5 (0.5-10mm²), or class 6 (16 and more) according to IEC 60228 and AS/NZS 1125.

Insulation

Cross-linked, halogen-free, flame retardant compound type X-HF-110 acc. to AS/NZS 3808, chemical, oil and UV resistant.

Applications

Wiring of switchboards, control, general wiring, instrumentation and communication systems. Used where LSZH is needed and where higher current ratings are required.

Nominal Voltage

» 600/1000V

Test Voltage

» 3000V

Standards

- » **Cable Construction:** AS/NZS 5000.1
- » **Flame retardant:** AS/NZS 1660.5.1; IEC 60332-3-22 Cat. A; IEC 60332-1
- » **Smoke density:** AS/NZS 1660.5.2; IEC 61034-2
- » **Halogen acid gas content:** AS/NZS 1660.5.3, IEC 60754-1
- » **Gases evolved during combustion:** AS/NZS 1660.5.4, IEC 60754-2

Conductor	0.5mm ²	0.75mm ²	1mm ²	1.5mm ²	2.5mm ²	4mm ²	6mm ²	10mm ²	16mm ²
Cable OD	2.3mm	2.5mm	2.6mm	2.9mm	3.4mm	3.9mm	4.4mm	5.4mm	6.4mm
Earth	3801000-LSZH	3801010-LSZH	3801020-LSZH	3801030-LSZH	3801040-LSZH	3801050-LSZH	3801060-LSZH	3801070-LSZH	3801080-LSZH
Black	3801001-LSZH	3801011-LSZH	3801021-LSZH	3801031-LSZH	3801041-LSZH	3801051-LSZH	3801061-LSZH	3801071-LSZH	3801081-LSZH
Red	3801004-LSZH	3801014-LSZH	3801024-LSZH	3801034-LSZH	3801044-LSZH	3801054-LSZH	3801064-LSZH	3801074-LSZH	3801084-LSZH
White	3801005-LSZH	3801015-LSZH	3801025-LSZH	3801035-LSZH	3801045-LSZH	3801055-LSZH	3801065-LSZH	3801075-LSZH	3801085-LSZH
Blue	3801002-LSZH	3801012-LSZH	3801022-LSZH	3801032-LSZH	3801042-LSZH	3801052-LSZH	3801062-LSZH	3801072-LSZH	3801082-LSZH
Brown	3801003-LSZH	3801013-LSZH	3801023-LSZH	3801033-LSZH	3801043-LSZH				
Grey	3801006-LSZH	3801016-LSZH	3801026-LSZH	3801036-LSZH	3801046-LSZH				
Orange	3801009-LSZH	3801019-LSZH	3801029-LSZH	3801039-LSZH					
Violet	3801007-LSZH	3801017-LSZH	3801027-LSZH	3801037-LSZH					
Pink	3801008-LSZH	3801018-LSZH	3801028-LSZH	3801038-LSZH					
Yellow	38010011-LSZH	38010111-LSZH	38010211-LSZH	38010311-LSZH					

CURRENT RATINGS FOR 110 APPLIANCE WIRE

Conductor cross-sectional area	Spaced		Spaced from surface		Touching		Enclosed		Conduit in air
	10	10	100	100	10	10	100	100	
mm ²	Cu	Cu	Cu	Cu	Cu	Cu	Cu	Cu	Cu
1	27	26	26	22	21	21	21	21	18
1.5	34	33	33	29	27	27	27	27	24
2.5	48	46	47	41	39	39	39	37	34
4	63	61	62	54	50	50	50	49	44
6	80	78	78	67	63	63	63	62	55
10	112	106	106	92	87	87	87	83	76
16	144	139	139	123	112	112	112	112	100

These ratings are based on an ambient air temperature of 30°C, and an ambient soil temperature of 15°C.

Cable Ferrules

INSULATED FERRULES (SINGLE AND DOUBLE ENTRY)

#179



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	Colour	Wires	Conductor Size	Pin Length	Pack Size
Standard Loose					
61721866	Light Blue	Single	0.25	6mm	500
61721868	Turquoise	Single	0.34	6mm	500
61801590	White	Single	0.5	8mm	500
61801630	Grey	Single	0.75	8mm	500
61801670	Red	Single	1	8mm	500
61801710	Black	Single	1.5	8mm	500
61801750	Blue	Single	2.5	8mm	500
61801780	Grey	Single	4	10mm	500
61801810	Yellow	Single	6	12mm	100
61801830	Red	Single	10	12mm	100
61801850	Blue	Single	16	12mm	100
61801870	Yellow	Single	25	16mm	50
61801900	Red	Single	35	16mm	50
61801930	Blue	Single	50	20mm	50
61801950	Yellow	Single	70	20mm	25
61801970	Red	Single	95	25mm	25
61801980	Blue	Single	120	27mm	25
61801990	Yellow	Single	150	32mm	25
XL Loose					
61802061	White	Single	0.5	8mm	500
61802063	Grey	Single	0.75	8mm	500
61802065	Red	Single	1	8mm	500
61802067	Black	Single	1.5	8mm	500
Strips					
61805170	White	Single	0.5	8mm	5x 100
61805180	Grey	Single	0.75	8mm	5x 100
61805190	Red	Single	1	8mm	5x 100
61805200	Black	Single	1.5	8mm	5x 100
61802052	White	Single	0.5	8mm	1x 3000
61802054	Grey	Single	0.75	8mm	1x 3000
61802056	Red	Single	1	8mm	1x 3000
61802058	Black	Single	1.5	8mm	1x 2500
61802060	Blue	Single	2.5	8mm	1x 1500
Double Wire					
61801999	White	Double	0.5	8mm	500
61802000	Grey	Double	0.75	8mm	500
61802010	Red	Double	1	8mm	500
61802020	Black	Double	1.5	8mm	500
61802030	Blue	Double	2.5	10mm	500
61802032	Grey	Double	4	12mm	100
61802033	Yellow	Double	6	14mm	100
61802034	Red	Double	10	14mm	100
Assorted Packs					
61802040	Single	30 x 0.25mm + 30 x 0.34mm + 30 x 0.5mm + 30 x 0.75mm + 30 x 1mm			
61802041	Single	50 x 0.5mm + 100 x 0.75mm + 100 x 1mm + 100 x 1.5mm + 50 x 2.5mm			
61802042	Single	40 x 4mm + 20 x 6mm + 20 x 10mm + 10 x 16mm			
61802046	Double	Double Ferrules : 50 x 0.75mm + 50 x 1mm + 50 x 1.5mm + 50 x 2.5mm			



Ferrule & Strip Tools

QUALITY TOOLS FOR CRIMPING

#17



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61813742

61813737

61735800

Item No	Type	Features	Conductor Size	Weight	Crimp Type
61813742	PEW 8.87	Heavy and Robust (Front Entry)	0.08mm to 10mm ²	475g	Square
61813737	PEW 8.186	Heavy and Robust (Side Entry)	0.08mm to 10mm ²	380g	Hex
61735800	Easy Strip 2 including blades	Self-adjusting cutting and stripping tool	0.02 to 10mm ²	180g	

90 DEGREE - UV Resistant Switchboard Flex

FLEXIBLE UV RESISTANT BLACK PVC BARE COPPER MAINS POWER CABLE

#7



SEARCH ON EXPRESS.ECSNZ.COM

90 XLPE/PVC - SWITCHBOARD FLEX



Construction

- » Flexible Class 5 bare copper
- » Double insulated
- » XLPE Inner Insulation
- » 5V-90 PVC outer sheath

Application

- » Suitable for fixed installation mains power distribution
- » Excellent UV resistance

Minimum Bending Radius

- » Fixed: 4 x cable OD

Voltage Rating

- » 600/1000V

Temperature Rating

- » -30 to 90 degrees

Standards

- » AS/NZS 5000.1
- » AS/NZS 1125
- » AS/NZS 3808

TF Item No	LAPP Item No	Conductor (mm)	OD (mm)	Drum Size
TF-G-136481	LAPP-8100961	10mm	8.2mm	500m
TF-G-136482	LAPP-8100962	16mm	9.3mm	500m
TF-G-036468	LAPP-8100963	25mm	10.9mm	500m
TF-G-036469	LAPP-8100964	35mm	11.9mm	500m
TF-G-036470	LAPP-8100965	50mm	13.8mm	500m
TF-G-036471	LAPP-8100966	70mm	15.8mm	500m
TF-G-036472	LAPP-8100967	95mm	18.1mm	500m
TF-G-036473	LAPP-8100968	120mm	19.4mm	500m
TF-G-036474	LAPP-8100969	150mm	23.5mm	500m
TF-G-036475	LAPP-8100970	185mm	25.3mm	500m
TF-G-036476	LAPP-8100971	240mm	27.6mm	500m
TF-G-036477	LAPP-8100972	300mm	31.3mm	500m
TF-G-036478	LAPP-8100973	400mm	33.8mm	500m

CURRENT RATINGS FOR 90 DEGREE SWITCHBOARD FLEX

Conductor cross-sectional area	Unenclosed				Enclosed			
	Spaced	Spaced from surface	Touching	Conduit in air				
mm ²	A	A	A	A	A	A	A	A
10	92	89	90	76	72	72	72	64
16	121	121	121	101	95	95	95	86
25	165	160	160	138	127	127	127	121
35	204	198	193	171	160	160	160	138
50	253	242	237	209	193	193	193	171
70	319	308	303	264	248	248	242	209
95	396	385	374	330	308	308	286	253
120	462	451	435	385	358	358	341	297
150	534	517	495	446	413	413	385	341
185	627	605	572	517	479	479	440	391
240	748	726	682	616	572	572	523	462
300	869	847	792	715	671	660	534	
400	1012	990	924	836	781	770		616

These ratings are based on an ambient air temperature of 30° C, and an ambient soil temperature of 15° C at 0.5m depth.

ÖLFLEX WIRE V-90 DEGREE - PVC Insulated Earth Wire

#2718



CLASS 2, BARE COPPER GREEN/YELLOW FOR FIXED INSTALLATION

SEARCH ON EXPRESS.ECSNZ.COM

LAPP KABEL V-90 – EARTH CONDUIT WIRE



Construction

- » Conductor : Stranded bare copper Class 2 acc. AS/NZS 1125
- » Core Insulation : PVC V-90 acc to AS/NZS 3808

Application

- » For fixed installation in power circuits in residential and commercial buildings
- » Plant engineering and construction, industrial machinery, earthing systems.

Minimum Bending Radius

- » Fixed: 4 x cable OD

Voltage Rating

- » 600/1000V

Temperature Rating

- » -20° to 90° degrees

Standards

- » AS/NZS 5000.1
- » AS/NZS 1125
- » AS/NZS 3808
- » IEC 60332-1-2
- » 2011/65/EU (RoHS)

Item No	Conductor Size (mm)	OD (mm)	Drum Size
8100901-100	4	4.7	100m
8100902-100	6	5.2	100m
8100901	4	4.7	500m/1000m
8100902	6	5.2	500m/1000m
8100903	10	6.2	500m/1000m
8100904	16	7.2	500m/1000m
8100905	25	9.0	500m/1000m
8100906	35	10.1	500m/1000m
8100907	50	11.9	500m/1000m
8100908	70	13.7	500m/1000m
8100909	95	16.0	500m/1000m
8100910	120	17.6	500m/1000m

Flexible 110° - Low Smoke - Halogen Free

X-HF-110 LSZH - Tinned Switchboard Flex

Conductors

- » Tinned Copper Conductors
- » Super Flexible Class 6 Stranding

Insulation

- » Black: R-E-110
- » Earth: X-HF-110

Outer Sheath

- » Black: E-110-R (Flexible Rubber)

Colour Of Outer Sheath

- » Black or Green/Yellow
- » UV Resistant

Application

- » Switchboards and transformers
- » Mains power distribution
- » Portable power feeds
- » Flexible copper tails
- » Other industrial applications
- » LSZH installations

Temperature Range

- » Black: -25°C to 110°C
- » Earth: -40°C to 110°C

Voltage Rating

- » 600/1000V

Features

- » Halogen free
- » Low Smoke
- » Heat resistance
- » Oil and chemical resistant
- » Flame retardant
- » UV and weather resistant

Standards

- » AS/NZS 5000.1
- » AS/NZS 3808
- » AS/NZS 3008
- » AS/NZS 1660.5.2, 1660.5.3
- » IEC 60228
- » IEC 61034-2
- » IEC 60754-2
- » IEC 60332-1

Minimum Bending Radius

- » 5 x cable OD

Item No	Conductor	Cable OD
110 LSZH - Single Cores		
TF-G-012568-BK-SN	10mm	9.0mm
TF-G-012569-BK-SN	16mm	10.3mm
TF-G-012570-BK-SN	25mm	11.9mm
TF-G-012571-BK-SN	35mm	13.3mm
TF-G-022907-BK-SN	50mm	15.0mm
TF-G-012573-BK-SN	70mm	17.1mm
TF-G-012574-BK-SN	95mm	19.5mm
TF-G-012575-BK-SN	120mm	21.5mm
TF-G-012576-BK-SN	150mm	23.9mm
TF-G-012577-BK-SN	185mm	26.5mm
TF-G-012579-BK-SN	240mm	29.3mm
TF-G-012581-BK-SN	300mm	32.4mm
EARTH - Green Yellow		
TF-G-136326	10mm	6.0mm
TF-G-136327	16mm	7.0mm
TF-G-136318	25mm	8.0mm
TF-G-136329	35mm	9.0mm
TF-G-136331	50mm	11.0mm
TF-G-136335	70mm	13.0mm
TF-G-136336	95mm	15.0mm
TF-G-136355	120mm	16.0mm

CURRENT RATINGS FOR 110 LSZH - SWITCHBOARD FLEX

Conductor	Unenclosed						Enclosed		Underground	
	Spaced	Spaced	Touching	Touching	Exposed to sunlight	Exposed to sunlight	In Conduit in air	In Conduit in air	Buried in Conduit	Buried in Conduit
mm ²	2	3	2	3	2	3	2	3	2	3
10	109	106	86	86	72	72	82	75	91	81
16	144	139	112	112	94	94	109	97	119	103
25	190	185	149	149	124	124	142	129	152	133
35	236	229	184	184	153	153	179	158	187	160
50	299	289	233	232	192	192	221	203	228	199
70	376	364	292	292	240	240	281	250	282	243
95	452	439	352	352	288	288	334	296	331	284
120	535	521	417	417	340	339	389	354	381	335
150	617	601	482	482	392	391	456	404	439	378
185	706	689	552	552	447	446	515	469	492	428
240	850	829	664	663	535	534	624	576	581	510
300	980	958	766	764	615	612		655	669	575
400	1182	1155	920	915	735	730		810	778	687
500	1380	1348	1069	1059	850	841		924	906	773
630	1636	1598	1250	1235	990	977		1064	1036	878

ecs

SWITCHBOARD FLEX

Copper Cable Lugs

FOR SINGLE CORE TERMINATION

#2449



SEARCH ON EXPRESS.ECSNZ.COM

Application

- » Mainly for connection to busbars and to copper connectors

Features

- » Electro Tinned

Benefits

- » Manufactured from 99.9% oxygen-free high conductivity Copper
- » With inspection Hole



Conductor Bolt Hole Size (mm)

Conductor	4	5	6	8	10	12	16	Blank
2.5mm ²	LUG-S-2.5-4	LUG-S-2.5-5	LUG-S-2.5-6					
4mm ²	LUG-S-4-4	LUG-S-4-5	LUG-S-4-6	LUG-S-4-8				
6mm ²	LUG-S-6-4	LUG-S-6-5	LUG-S-6-6	LUG-S-6-8				
10mm ²		LUG-S-10-5	LUG-S-10-6	LUG-S-10-8	LUG-S-10-10			
16mm ²			LUG-S-16-5	LUG-S-16-6	LUG-S-16-8	LUG-S-16-10	LUG-S-16-12	
25mm ²				LUG-S-25-6	LUG-S-25-8	LUG-S-25-10	LUG-S-25-12	
35mm ²				LUG-S-35-6	LUG-S-35-8	LUG-S-35-10	LUG-S-35-12	
50mm ²				LUG-S-50-6	LUG-S-50-8	LUG-S-50-10	LUG-S-50-12	
70mm ²					LUG-S-70-8	LUG-S-70-10	LUG-S-70-12	
95mm ²					LUG-S-95-8	LUG-S-95-10	LUG-S-95-12	
120mm ²					LUG-S-120-8	LUG-S-120-10	LUG-S-120-12	
150mm ²					LUG-S-150-8	LUG-S-150-10	LUG-S-150-12	LUG-S-150-B
185mm ²						LUG-S-185-10	LUG-S-185-12	LUG-S-185-B
240mm ²						LUG-S-240-10	LUG-S-240-12	LUG-S-240-B
300mm ²						LUG-S-300-10	LUG-S-300-12	LUG-S-300-16

Bellmouth Cable Lugs

FOR SINGLE CORE TERMINATION

#2450



Application

- » Mainly for connection to busbars and to copper connectors

Features

- » Designed with a larger cable entry to accommodate strand splaying of a conductor
- » Electro Tinned

Benefits

- » Manufactured from 99.9% oxygen-free high conductivity Copper
- » With inspection Hole



Conductor Bolt Hole Size (mm)

Conductor	6	8	10	12	16	Blank
25mm ²	LUG-BM-25-6	LUG-BM-25-8	LUG-BM-35-6			
35mm ²	LUG-BM-35-6	LUG-BM-35-8	LUG-BM-35-10	LUG-BM-35-12		
50mm ²		LUG-BM-50-8	LUG-BM-50-10	LUG-BM-50-12		
70mm ²		LUG-BM-70-8	LUG-BM-70-10	LUG-BM-70-12		
95mm ²		LUG-BM-95-8	LUG-BM-95-10	LUG-BM-95-12		
120mm ²		LUG-BM-120-8	LUG-BM-120-10	LUG-BM-120-12		
150mm ²		LUG-BM-150-8	LUG-BM-150-10	LUG-BM-150-12		
185mm ²			LUG-BM-185-10	LUG-BM-185-12	LUG-BM-185-B	
240mm ²			LUG-BM-240-10	LUG-BM-240-12	LUG-BM-240-B	
300mm ²			LUG-BM-300-10	LUG-BM-300-12	LUG-BM-300-16	LUG-BM-300-B

Cable Crimp Links

FOR JOINTING OF IDENTICAL SIZED COPPER CONDUCTORS

#2451



Application

- » Joining of identical sized copper conductors

Features

- » Electro Tinned

Benefits

- » Manufactured from 99.9% oxygen-free high conductivity Copper



Conductor	Item No
1.5mm ²	LINK-S-1.5
2.5mm ²	LINK-S-2.5
4mm ²	LINK-S-4
6mm ²	LINK-S-6
10mm ²	LINK-S-10
16mm ²	LINK-S-16
25mm ²	LINK-S-25
35mm ²	LINK-S-35

Conductor	Item No
50mm ²	LINK-S-50
70mm ²	LINK-S-70
95mm ²	LINK-S-95
120mm ²	LINK-S-120
150mm ²	LINK-S-150
185mm ²	LINK-S-185
240mm ²	LINK-S-240
300mm ²	LINK-S-300



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STANLEY DUBUIS Industrial Hydraulic Crimp Tool | \$30 per / day

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LAPP KABEL STUTTGART AS BLACK CIRCULAR TPS

Construction

- » Class 2 stranded conductors
- » 6mm and below – UV Resistant Sheath 5V-90, inner insulation V-90 (PVC)
- » 10mm and above – UV Resistant Sheath 5V-90, inner insulation X-90 (XLPE)
- » Cables are metre marked

Minimum Bending Radius

- » Fixed: 4 x cable OD

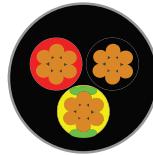
Temperature Rating

- » -20 to 90

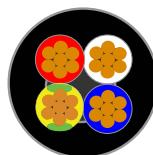
Standards

- » AS/NZS 5000.1
- » AS/NZS 5000.2
- » AS/NZS 1660.5.6

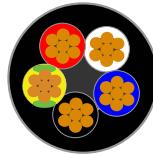
Item No	Cores	Conductors	Earth Size	Rating	OD	Insulation
3 core (2 core + earth)						
3803840	2 Core + Earth	1.5mm	1.5mm	450/750V	9.4mm	PVC
3803841	2 Core + Earth	2.5mm	2.5mm	450/750V	11mm	PVC
3803842	2 Core + Earth	4mm	2.5mm	450/750V	12.6mm	PVC
3803843	2 Core + Earth	6mm	2.5mm	450/750V	13.8mm	PVC
3803844A	2 Core + Earth	10mm	4mm	600/1000V	16.7mm	XLPE
3803845A	2 Core + Earth	16mm	6mm	600/1000V	18.9mm	XLPE
3803846A	2 Core + Earth	25mm	6mm	600/1000V	20.3mm	XLPE
3803847A	2 Core + Earth	35mm	10mm	600/1000V	22.6mm	XLPE
4 core (3 core + earth)						
3803852	3 Core + Earth	1.5mm	1.5mm	450/750V	10.1mm	PVC
3803853	3 Core + Earth	2.5mm	2.5mm	450/750V	11.9mm	PVC
3803854	3 Core + Earth	4mm	2.5mm	450/750V	13.6mm	PVC
3803855	3 Core + Earth	6mm	2.5mm	450/750V	15mm	PVC
3803856A	3 Core + Earth	10mm	4mm	600/1000V	17.3mm	XLPE
3803857A	3 Core + Earth	16mm	6mm	600/1000V	19.8mm	XLPE
5 core (4 core + earth)						
3803864	4 Core + Earth	1.5mm	1.5mm	450/750V	10.9mm	PVC
3803865	4 Core + Earth	2.5mm	2.5mm	450/750V	12.8mm	PVC
3803866	4 Core + Earth	4mm	2.5mm	450/750V	14.8mm	PVC
3803867	4 Core + Earth	6mm	2.5mm	450/750V	16.3mm	PVC
3803868A	4 Core + Earth	10mm	4mm	600/1000V	19.9mm	XLPE
3803869A	4 Core + Earth	16mm	6mm	600/1000V	22.8mm	XLPE
3803870A	4 Core + Earth	25mm	6mm	600/1000V	27.4mm	XLPE
3803871A	4 Core + Earth	35mm	10mm	600/1000V	30.5mm	XLPE
3803872A	4 Core + Earth	50mm	16mm	600/1000V	35.4mm	XLPE
3803873A	4 Core + Earth	70mm	25mm	600/1000V	40.7mm	XLPE
3803874A	4 Core + Earth	95mm	25mm	600/1000V	44.5mm	XLPE



3 core (2 core + earth)



4 core (3 core + earth)



5 core (4 core + earth)

CURRENT RATINGS FOR CIRCULAR TPS

Conductor cross-sectional area	Unenclosed				Enclosed				Underground Ducts	Three Phase Voltage Drop		
	Spaced		Touching		Conduit in air							
mm ²	A	A	A	A	A	A	A	A	mV/A/m			
1.5	22	18	21	17	16	15	24	21	30			
2.5	31	26	30	25	23	21	34	29	16.4			
4	42	35	39	33	30	27	44	37	10.2			
6	52	46	50	42	39	35	56	47	6.8			
10	86	73	80	68	65	58	82	68	4.05			
16	116	97	107	91	87	77	107	89	2.55			
25	154	132	143	121	121	108	139	118	1.61			
35	193	160	176	149	143	127	171	144	1.17			
50	231	198	215	187	176	154	203	171	0.87			
70	297	253	275	237	220	193	251	214	0.61			
95	363	314	341	292	264	231	305	257	0.45			

These ratings are based on an ambient air temperature of 30° C



ÖLFLEX POWER NS Neutral Screen

NEUTRAL WIRE SCREENED CABLE

#2504
Freephone ECS Sales 

LAPP KABEL STUTTGART ÖLFLEX® POWER NS



Construction

- » Stranded plain annealed copper wires
- » PVC core insulation
- » Neutral screen made of plain annealed copper wire
- » PVC outer sheath
- » Colour : black

Minimum Bending Radius

- » 12 x cable diameter

Features

- » Flame retardant according to IEC 60332-1-2

Temperature Rating

- » Up to 75°C

Rated voltage

- » 0.6/1 kV

Standards

- » AS/NZS 4961

Item No	Type	Conductors	Sheath	OD
1 Core				
8100669	LAPP KABEL CU/PVC/NSC/PVC - For Direct Burial	10mm	3.2mm	14.8mm
8100670	LAPP KABEL CU/PVC/NSC/PVC - For Direct Burial	16mm	3.2mm	16.2mm
2 Core				
8100671	LAPP KABEL CU/PVC/NSC/PVC - Flat Cable	2.5mm	1.8mm	12.5 x 8.6mm
8100672	LAPP KABEL CU/PVC/NSC/PVC - Flat Cable	4mm	1.8mm	14.5 x 9.5mm
8100673	LAPP KABEL CU/PVC/NSC/PVC - Flat Cable	6mm	1.8mm	15.8 x 10.2mm
8100679	LAPP KABEL CU/PVC/NSC/PVC - Flat Cable, For Direct Burial	10mm	3.2mm	21.0 x 14.4mm
8100680	LAPP KABEL CU/PVC/NSC/PVC - Flat Cable, For Direct Burial	16mm	3.2mm	23.5 x 15.8mm
3 Core				
8100681	LAPP KABEL CU/PVC/NSC/PVC	2.5mm	1.8mm	12.8mm
8100682	LAPP KABEL CU/PVC/NSC/PVC	4mm	1.8mm	14.9mm
8100683	LAPP KABEL CU/PVC/NSC/PVC	6mm	1.8mm	16.3mm
8100689	LAPP KABEL CU/PVC/NSC/PVC - For Direct Burial	10mm	3.2mm	21.5mm
8100690	LAPP KABEL CU/PVC/NSC/PVC - For Direct Burial	16mm	3.2mm	23.8mm
4 Core				
8100691	LAPP KABEL CU/PVC/NSC/PVC	2.5mm	1.8mm	13.8mm
8100692	LAPP KABEL CU/PVC/NSC/PVC	4mm	1.8mm	16.2mm
8100693	LAPP KABEL CU/PVC/NSC/PVC	6mm	1.8mm	18.6mm
8100699	LAPP KABEL CU/PVC/NSC/PVC - For Direct Burial	10mm	3.2mm	23.1mm
8100700	LAPP KABEL CU/PVC/NSC/PVC - For Direct Burial	16mm	3.2mm	25.7mm



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LAPP CHAMPION Drum Roller Dispensers

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\$6
per / day



Standard » AS/NZS 5000.2	Flame Retardant to » AS/NZS IEC 60332-1-2	Temperature Rating » -15 °C to 90 °C			Voltage Rating » 450/750 V		
100m Drum	200m Drum	500m Drum	Conductors	Conductor Size	Earth Size	Core Colours	Sheath Colour
2 Core							
8100721			2 (no earth)	1.5mm	1.5mm	Red, Black	White
2 Core + Earth							
8100701	8100701-200		2 + Earth	1mm	1mm	Red, Black, G/Y	White
8100702	8100702-200	8100702-500	2 + Earth	1.5mm	1.5mm	Red, Black, G/Y	White
8100703	8100703-200	8100703-500	2 + Earth	2.5mm	2.5mm	Red, Black, G/Y	White
8100704		8100704-500	2 + Earth	4mm	2.5mm	Red, Black, G/Y	White
8100705		8100705-500	2 + Earth	6mm	2.5mm	Red, Black, G/Y	White
8100706			2 + Earth	10mm	4mm	Red, Black, G/Y	White
3 Core + Earth							
8100709			3 + Earth	1.5mm	1.5mm	Red, White, Blue, G/Y	White
8100719			3 + Earth	1.5mm	1.5mm	Red, White, Blue, G/Y	Blue
8100720			3 + Earth	2.5mm	2.5mm	Red, White, Blue, G/Y	Blue
3 Core (No Earth) - Switching							
8100715			3 (no earth)	1mm		Red, White, Blue	Yellow/Lemon
8100716			3 (no earth)	1.5mm		Red, White, Blue	Yellow/Lemon
4 Core + Earth							
8100730			4 + Earth	1.5mm	1.5mm	Red, White, Blue, Black, G/Y	Yellow/Lemon
8100731			4 + Earth	2.5mm	2.5mm	Red, White, Blue, Black, G/Y	Yellow/Lemon





Fire Rated Series FR3013

FIRE RESISTANT POWER & CONTROL CABLE, 0.6/1kV, AS/NZS 5000.1

#1550



SEARCH ON EXPRESS.ECSNZ.COM

AS/NZS 3013 Fire Resistant Cable



Conductors

Flexible bare copper wire stranding; class 5 according to IEC 60228 and AS/NZS 1125 with Glass Mica Tape Flame Barrier.

Insulation

Cross-linked, halogen-free, flame retardant compound type X-HF-110 acc. to AS/NZS 3808

Sheath

Flexible, thermoplastic, low smoke, halogen-free compound having reduced flame propagation when exposed to a fire, type HFS-110-TP acc. to AS/NZS 3808

Temperature Rating

» -25 to 110°C

Voltage Rating

» 0.6/1kV

Minimum bending radius

» 8 x cable OD

Features

» Low Smoke & Halogen Free

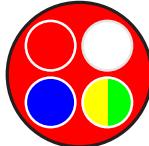
Standards

- » AS/NZS 5000.1
- » AS/NZS 1660.5.1 / IEC 60332-3-22
- » AS/NZS 1660.5.2 / IEC 61034-2
- » AS/NZS 1660.5.3 / IEC 60754-1
- » AS/NZS 1660.5.4 / IEC 60754-2
- » AS/NZS 1660.5.5 / IEC 60331
- » AS/NZS 3013 / Cat WS52W

Item No	Conductor	Earth	Cable OD
2 Core and Earth			
TF-G-025236	1.5mm	1.5mm	11.2mm
TF-G-025237	2.5mm	2.5mm	12.3mm
TF-G-025238	4mm	2.5mm	12.9mm
TF-G-022522	6mm	2.5mm	13.8mm
3 Core and Earth			
TF-G-018996	1.5mm	1.5mm	12.3mm
TF-G-025239	2.5mm	2.5mm	13.5mm
4 Core and Earth			
TF-G-025242	2.5mm	2.5mm	14.8mm
TF-G-025243	4mm	2.5mm	16.1mm
TF-G-022524	6mm	2.5mm	17.6mm
TF-G-022527	10mm	4.0mm	20.0mm
TF-G-022528	16mm	6mm	23.2mm
TF-G-122512	25mm	6mm	25.7mm
Multi-Core - 12 Core			
TF-G-036446	12G 1.5mm	1.5mm	19.4mm
3 Core and Earth + Screen (for VSD's)			
ECS-FR-4G2.5VSD	4G 2.5mm	2.5mm	19.3mm



3 Core



4 Core



5 Core

CURRENT RATINGS FOR FR3013 FIRE RATED SERIES

Conductor	Unenclosed							
	Spaced	Spaced	Touching	Touching	In Conduit	In Conduit	Fully in insulation	Fully in insulation
mm ²	2	3&4	2	3&4	2	3&4	2	3&4
1.5	32	28	30	26	26	22	15	13
2.5	43	36	41	34	34	29	20	18
4	57	48	54	45	46	39	28	24
6	72	61	67	58	58	49	35	30
16		113		106		90		54
25		150		140		120		72

ÖLFLEX LSZH Power Cable

FLEXIBLE POWER DISTRIBUTION CABLE FOR FIXED INSTALLATIONS

#2766



SEARCH ON EXPRESS.ECSNZ.COM

Construction

- » Conductors: Flexible Class 5 Stranded to AS/NZS 1125
- » Core Insulation: Halogen free compound X-HF-90
- » Sheath: Halogen free compound HFS-90-TP

Nominal Voltage

- » 600/1000V
- » -25 to 90

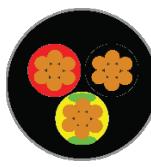
Minimum Bending Radius

- » 6 x D for conductor sizes 6mm² and below
- » 8 x D for conductor sizes 10mm² and above

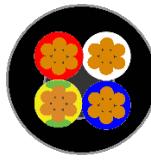
Standards

- » Cable Construction: AS/NZS 5000.1
- » Flammability : AS/NZS 1660.5.6
- » Smoke Density : AS/NZS 1660.5.2
- » Halogen Free : AS/NZS 1660.5.4
- » UV-resistance : ISO 4892-2 method A

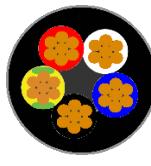
Item No	Conductors	Earth Size	Rating	OD
3 Core (2 Core + earth)				
3805392	1.5mm	1.5mm	600/1000V	10.5mm
3805394	2.5mm	2.5mm	600/1000V	11.3mm
3805397	4mm	4mm	600/1000V	12.7mm
3805400	6mm	6mm	600/1000V	13.9mm
3805403	10mm	10mm	600/1000V	16.1mm
3805406	16mm	16mm	600/1000V	18.2mm
4 Core (3 Core + Earth)				
3805393	1.5mm	1.5mm	600/1000V	11.2mm
3805395	2.5mm	2.5mm	600/1000V	12.2mm
3805398	4mm	4mm	600/1000V	13.8mm
3805401	6mm	6mm	600/1000V	15.1mm
3805404	10mm	10mm	600/1000V	17.5mm
3805407	16mm	16mm	600/1000V	20.0mm
5 Core (4 Core + Earth)				
3805423	1.5mm	1.5mm	600/1000V	12.1mm
3805396	2.5mm	2.5mm	600/1000V	13.1mm
3805399	4mm	4mm	600/1000V	14.9mm
3805402	6mm	6mm	600/1000V	16.4mm
3805405	10mm	10mm	600/1000V	19.1mm
3805408	16mm	16mm	600/1000V	21.8mm
3805410	25mm	25mm	600/1000V	27.2mm
3805412	35mm	35mm	600/1000V	31.1mm
3805414	50mm	50mm	600/1000V	37.5mm
3805416	70mm	70mm	600/1000V	43.9mm
3805418	95mm	95mm	600/1000V	49.4mm



3 Core
(2 Core + Earth)



4 Core
(3 Core + Earth)



5 Core
(4 Core + Earth)

LAPP KABEL STUTTGART AS BLACK CIRCULAR

NO HALOGENS

NO ACIDS

LOW SMOKE

LSZH POWER CABLE

Insulated Cable Lugs

INSULATED CONNECTIONS

#180



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LUGS & CRIMPERS

eCS

Item No	Conductor Size	Bolt Size	Colour	Pack Size
Ring Lugs				
63104010	0.25 to 0.75	M3	Green	100
63104020	0.25 to 0.75	M4	Green	100
63104030	0.25 to 0.75	M5	Green	100
63104040	0.5 to 1.5	M3	Red	100
63104050	0.5 to 1.5	M3.5	Red	100
63104060	0.5 to 1.5	M4	Red	100
63104070	0.5 to 1.5	M5	Red	100
63104080	0.5 to 1.5	M6	Red	100
63104160	1.5 to 2.5	M3	Blue	100
63104170	1.5 to 2.5	M4	Blue	100
63104180	1.5 to 2.5	M5	Blue	100
63104190	1.5 to 2.5	M6	Blue	100
63104200	1.5 to 2.5	M8	Blue	100
63104340	4 to 6	M4	Yellow	50
63104350	4 to 6	M5	Yellow	50
63104360	4 to 6	M6	Yellow	50
63104370	4 to 6	M8	Yellow	50
63104380	4 to 6	M10	Yellow	50
Fork Lugs (Standard)				
63105010	0.25 to 0.75	M3	Green	100
63105020	0.25 to 0.75	M4	Green	100
63105050	0.5 to 1.5	M4	Red	100
63105060	0.5 to 1.5	M5	Red	100
63105070	0.5 to 1.5	M6	Red	100
63105130	1.5 to 2.5	M4	Blue	100
63105140	1.5 to 2.5	M5	Blue	100
63105150	1.5 to 2.5	M6	Blue	100
63105210	4 to 6	M4	Yellow	50
63105220	4 to 6	M5	Yellow	50
63105230	4 to 6	M6	Yellow	50
Fork Lugs (Narrow)				
63105040	0.5 to 1.5	M3.5	Red	100
63105110	1.5 to 2.5	M3	Blue	100
63105120	1.5 to 2.5	M3.5	Blue	100
Fork Lugs (Talon)				
63108050	1.5 to 2.5	M5	Blue	100
Pin Lugs				
63107010	0.25 to 0.75		Green	100
63107020	0.5 to 1.5		Red	100
63107040	1.5 to 2.5		Blue	100
63107070	4 to 6		Yellow	50
Circular Connectors				
63110010	0.5 to 1.5		Red	100
63110020	1.5 to 2.5		Blue	100
Connector Sleeve				
63111010	0.5 to 1.5		Red	100
63111020	1.5 to 2.5		Blue	50
Butt Joints				
63106020	0.5 to 1.5		Red	100
63106040	1.5 to 2.5		Blue	100
63106080	4 to 6		Yellow	50
End Joints				
63112010	1.5 to 2.5		Transparent	100
63112020	4 to 6		Transparent	50



Ring Lugs



Fork Lugs (Standard)



Pin Lugs



Circular Connectors



Connector Sleeve



Butt Joints



End Joints

Insulated Lug Crimp Tools

QUALITY TOOLS FOR CRIMPING

#18



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61722050



61722070

Item No	Type	Conductor Sizes	Weight	Crimp Type
61722050	DSA 0110	0.1 to 1.5mm ²	350g	Oval
61722070	CSA 0760	0.5 to 6mm ²	220g	Oval

Basic Cable Ties

BASIC CABLE TIES

Benefits

High resistance to bases, oils, greases, oil derivates, solvents containing chlorine

Application Range

Basic Tie is a multipurpose cable tie for many applications



Product Features

- » Flame retardancy: UL 94 class V2.
- » UV Resistant (Black Only)



Item No	Dimensions (mm)	Pack Size
Black		
61831041	98 x 2.5	100
61831045	140 x 3.6	100
61831043	160 x 2.5	100
61831049	160 x 4.5	100
61831044	200 x 2.6	100
61831046	200 x 3.6	100
61831047	290 x 3.6	100
61831051	200 x 4.8	100
61831053	370 x 3.6	100
61831054	290 x 4.8	100
61831056	360 x 4.8	100
61831062	365 x 7.8	100
61831063	450 x 7.8	100
61831064	540 x 7.8	100
61831065	750 x 7.8	100

Item No	Dimensions	Pack Size
White		
61831001	98 x 2.5	100
61831003	160 x 2.5	100
61831004	200 x 2.6	100
61831006	200 x 3.6	100
61831007	290 x 3.6	100
61831011	200 x 4.8	100
61831014	290 x 4.8	100
61831016	360 x 4.8	100
61831023	450 x 7.8	100

TY-RAP® Cable Ties

WEATHER-PROOF, UV-STABILISED

Description

Cable ties were first invented by Thomas & Betts, an electrical company, in 1958 under the brand name Ty-Rap. Initially they were designed for airplane wire harnesses.

Application Range

The TY-RAP® weather-resistant product is used outdoors for installation and maintenance of power plants.

Benefits

- » Weather-resistant

TY- RAP®

- » Is a trademark of Thomas&Betts

Product features

- » Metal blade in head

Approvals

- » File Number E49405

Description	Dimensions	1000 Pack	500 Pack	100 Pack	50 Pack
TY Black					
TYB 23 MX	92 x 2.4	61723010		61723010-100	
TYB 24 MX	140 x 3.6	61723020		61723020-100	
TYB 25 MX	186 x 4.8	61723030		61723030-100	
TY 26 MX	281 x 3.6	61723040		61723040-100	
TY 27 MX	340 x 7.0		61723050		61723050-50
TY 28 MX	360 x 4.8	61723060		61723060-100	
TY 234 MX	356 x 2.4	61723120		61723120-100	
NDT (Detectable Blue)					
TY523M	92 x 2.0			61723351	
TY525M	186 x 4.0			61723352	
TY528M	360 x 4.0			61723353	
TY527M	340 x 7.0				61723354



Stainless Steel Solar Cable Management

FOR SOLAR POWER INSTALLATIONS

Ties

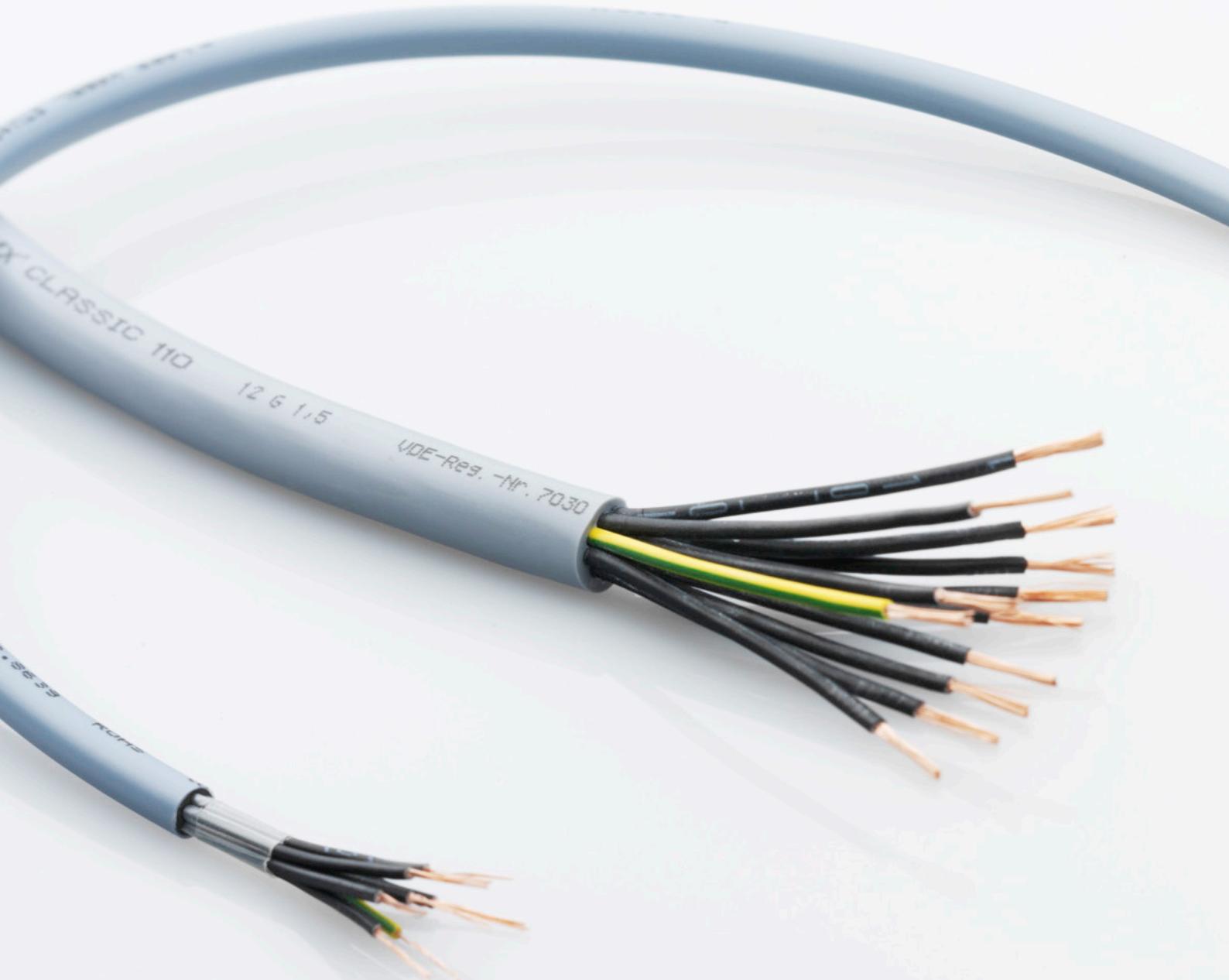
Some basic cable ties are bare metal and are quite sharp, however Wiley cable ties have a black Epoxy coating and are less likely to cut into cables.

Clips

- » Can hold 2 cables: 5.0mm-5.7mm (i.e. a loop)
- » Can hold 1 cable: 5.0mm-7.0mm
- » Quick tidy cable handling
- » 304 Stainless Steel
- » Wiley is the market leader for this type of product



Item No	Description	Stainless Steel Rating	Dimensions	Pack Size
Ties				
PV-TS1-4-46200-316C	Epoxy Coated Stainless Steel Cable Ties	316	4.6 x 200mm	100
PV-TS1-4-46360-316C	Epoxy Coated Stainless Steel Cable Ties	316	4.6 x 360mm	100
Clips				
PV-ACC-EACH	Stainless Steel Cable Clips Each	304		1
PV-ACC	Stainless Steel Cable Clips Packet	304		100



THE WORLD'S ORIGINAL CONTROL CABLE

ÖLFLEX® – invented by LAPP – is the world's first flexible multiconductor control cable and is widely trusted for industrial machinery and equipment.

LAPP's ÖLFLEX® range is ideally suited to heating and cooling systems, wind power, buildings, medical technology, food and beverage, construction, vehicles and mobile equipment. LAPP offers an extensive range of ÖLFLEX® cables which includes flexible control, continuous flex, torsional, servo, high temperature, and field bus cables, all designed to withstand the rigours of the most demanding applications.



Contact our technical team today to assist with your application.
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LAPP KABEL STUTTGART ÖLFLEX® CLASSIC 110



LAPP KABEL STUTTGART ÖLFLEX® CLASSIC 110



Construction

- » Flexible Class 5 fine wire stranding, PVC insulation and outer sheath.

Minimum Bending Radius

- » Flexing: 15 x cable OD
- » Fixed: 4 x cable OD

Temperature Rating

- » Flexing: -5 to 70
- » Fixed: -40 to 80

Nominal Voltage

- » 300/500V

With Earth

Grey	Black	Cores	OD
0.5mm			
1119003		2 core + earth	4.8mm
1119004		3 core + earth	5.7mm
1119005		4 core + earth	6.2mm
1119007		6 core + earth	6.7mm
1119010		9 core + earth	8.6mm
1119012		11 core + earth	8.9mm
1119018		17 core + earth	10.5mm
1119021		20 core + earth	11.7mm
1119025		24 core + earth	12.4mm
1119030		29 core + earth	13.3mm
1119040		39 core + earth	15.4mm
0.75mm			
1119103	1119871	2 core + earth	5.7mm
1119104	1119872	3 core + earth	6.2mm
1119105	1119873	4 core + earth	6.7mm
1119107	1119874	6 core + earth	7.3mm
1119109		8 core + earth	9.4mm
1119110		9 core + earth	9.6mm
1119112	1119875	11 core + earth	9.9mm
1119115		14 core + earth	10.9mm
1119118	1119876	17 core + earth	11.7mm
1119121		20 core + earth	13mm
1119125	1119877	24 core + earth	13.8mm
1119134		33 core + earth	15.9mm
1119141		40 core + earth	17.4mm
1119150		49 core + earth	19.2mm
1mm			
1119203	1119244	2 core + earth	6mm
1119204	1119245	3 core + earth	6.5mm
1119205	1119246	4 core + earth	7.1mm
1119207	1119247	6 core + earth	8mm
1119209		8 core + earth	10mm
1119210		9 core + earth	10.2mm
1119212	1119248	11 core + earth	10.5mm
1119214		13 core + earth	11.2mm
1119218	1119249	17 core + earth	12.7mm
1119220		19 core + earth	13.4mm
1119225		24 core + earth	14.7mm
1119236		35 core + earth	17.4mm
1119241		40 core + earth	18.8mm
1119250		49 core + earth	20.6mm

Grey	Black	Cores	OD
1.5mm			
1119303	1119020	2 core + earth	6.7mm
1119304	1119879	3 core + earth	7.2mm
1119305	1119880	4 core + earth	8.1mm
1119307	1119881	6 core + earth	8.9mm
1119309		8 core + earth	11.4mm
1119312	1119882	11 core + earth	12mm
1119318	1119883	17 core + earth	14.4mm
1119321		20 core + earth	15.7mm
1119325	1119884	24 core + earth	16.9mm
1119334		33 core + earth	19.4mm
1119341		40 core + earth	21.3mm
1119350		49 core + earth	23.5mm
2.5mm			
1119403	1119885	2 core + earth	8.1mm
1119404	1119886	3 core + earth	8.9mm
1119405	1119887	4 core + earth	10mm
1119407	1119888	6 core + earth	11.1mm
1119412	1119889	11 core + earth	14.8mm
1119418	1119890	17 core + earth	17.8mm
1119425	1119891	24 core + earth	20.8mm
4mm			
1119503		2 core + earth	9.9mm
1119504		3 core + earth	10.8mm
1119505		4 core + earth	12.1mm
1119507		6 core + earth	13.4mm
6mm			
1119603		2 core + earth	11.7mm
1119604		3 core + earth	13mm
1119605		4 core + earth	14.5mm
10mm			
1119613		2 core + earth	14.6mm
1119615		4 core + earth	18.1mm
16mm			
1119264		3 core + earth	18.8mm
25mm			
1119634		3 core + earth	23.5mm

No Earth

Grey	Black	Cores	OD
0.5mm			
1119752		2 core - no earth	4.8mm
1119753		3 core - no earth	5.1mm
1119754		4 core - no earth	5.7mm
1119757		7 core - no earth	6.7mm
0.75mm			
1119802	1119809	2 core - no earth	5.4mm
1119803	1119892	3 core - no earth	5.7mm
1119804	1119893	4 core - no earth	6.2mm
1119805		5 core - no earth	6.7mm
1119807		7 core - no earth	7.3mm
1119812		12 core - no earth	9.9mm

Grey	Black	Cores	OD
1mm			
1119852	1119894	2 core - no earth	5.7mm
1119853	1119895	3 core - no earth	6mm
1119854	1119896	4 core - no earth	6.5mm
1119855		5 core - no earth	7.1mm
1119857		7 core - no earth	8mm
1119862		12 core - no earth	10.5mm
1.5mm			
1119902	1119898	2 core - no earth	6.3mm
1119903	1119899	3 core - no earth	6.7mm
1119904	1119900	4 core - no earth	7.2mm
2.5mm			
1119952	1119914	2 core - no earth	7.5mm



Construction

Flexible Class 5 fine wire stranding, PVC inner insulation material and transparent PVC outer sheath. Tinned copper braid screen with high coverage.

Minimum Bending Radius

- » 20 x cable OD
- » 6 x cable OD

Temperature Rating

- » Flexing: -5 to 70
- » Fixed: -40 to 80

Nominal Voltage

- » 300/500V

Test Voltage

- » 4000V

Item No	Item Description	Cores	Description	OD (mm)	Gland Size
LAPP-1135752	ÖLFLEX CLASSIC 110 CY 2X0,5	2	2 core - no earth	7	M16
LAPP-1135753	ÖLFLEX CLASSIC 110 CY 3X0,5	3	3 core - no earth	7.3	M16
LAPP-1135003	ÖLFLEX CLASSIC 110 CY 3G0,5	3	2 core + earth	7.3	M16
LAPP-1135004	ÖLFLEX CLASSIC 110 CY 4G0,5	4	3 core + earth	7.9	M16
LAPP-1135005	ÖLFLEX CLASSIC 110 CY 5G0,5	5	4 core + earth	8.4	M16
LAPP-1135007	ÖLFLEX CLASSIC 110 CY 7G0,5	7	6core + earth	8.9	M16
LAPP-1135012	ÖLFLEX CLASSIC 110 CY 12G0,5	12	11 core + earth	11.3	M20
LAPP-1135018	ÖLFLEX CLASSIC 110 CY 18G0,5	18	17 core + earth	13.3	M25
LAPP-1135025	ÖLFLEX CLASSIC 110 CY 25G0,5	25	24 core + earth	15.2	M25
LAPP-1135802	ÖLFLEX CLASSIC 110 CY 2X0,75	2	2 core - no earth	7.4	M16
LAPP-1135803	ÖLFLEX CLASSIC 110 CY 3X0,75	3	3 core - no earth	7.9	M16
LAPP-1135103	ÖLFLEX CLASSIC 110 CY 3G0,75	3	2 core + earth	7.9	M16
LAPP-1135104	ÖLFLEX CLASSIC 110 CY 4G0,75	4	3 core + earth	8.4	M16
LAPP-1135105	ÖLFLEX CLASSIC 110 CY 5G0,75	5	4 core + earth	8.9	M16
LAPP-1135107	ÖLFLEX CLASSIC 110 CY 7G0,75	7	6core + earth	9.7	M20
LAPP-1135112	ÖLFLEX CLASSIC 110 CY 12G0,75	12	11 core + earth	12.3	M20
LAPP-1135118	ÖLFLEX CLASSIC 110 CY 18G0,75	18	17 core + earth	14.5	M25
LAPP-1135125	ÖLFLEX CLASSIC 110 CY 25G0,75	25	24 core + earth	16.6	M25
LAPP-1135852	ÖLFLEX CLASSIC 110 CY 2X1	2	2 core - no earth	7.9	M16
LAPP-1135853	ÖLFLEX CLASSIC 110 CY 3X1	3	3 core - no earth	8.2	M16
LAPP-1135203	ÖLFLEX CLASSIC 110 CY 3G1	3	2 core + earth	8.2	M16
LAPP-1135204	ÖLFLEX CLASSIC 110 CY 4G1	4	3 core + earth	8.7	M16
LAPP-1135205	ÖLFLEX CLASSIC 110 CY 5G1	5	4 core + earth	9.5	M20
LAPP-1135207	ÖLFLEX CLASSIC 110 CY 7G1	7	6core + earth	10.2	M20
LAPP-1135212	ÖLFLEX CLASSIC 110 CY 12G1	12	11 core + earth	13.3	M25
LAPP-1135218	ÖLFLEX CLASSIC 110 CY 18G1	18	17 core + earth	15.5	M25
LAPP-1135225	ÖLFLEX CLASSIC 110 CY 25G1	25	24 core + earth	17.5	M32
LAPP-1119902	ÖLFLEX CLASSIC 110 2X1,5	2	2 core - no earth	8.5	M16
LAPP-1119903	ÖLFLEX CLASSIC 110 3X1,5	3	3 core - no earth	8.9	M16
LAPP-1119303	ÖLFLEX CLASSIC 110 3G1,5	3	2 core + earth	8.9	M16
LAPP-1119304	ÖLFLEX CLASSIC 110 4G1,5	4	3 core + earth	9.6	M20
LAPP-1119305	ÖLFLEX CLASSIC 110 5G1,5	5	4 core + earth	10.3	M20
LAPP-1119307	ÖLFLEX CLASSIC 110 7G1,5	7	6core + earth	11.3	M20
LAPP-1119312	ÖLFLEX CLASSIC 110 12G1,5	12	11 core + earth	14.8	M25
LAPP-1119318	ÖLFLEX CLASSIC 110 18G1,5	18	17 core + earth	17.2	M32
LAPP-1119325	ÖLFLEX CLASSIC 110 25G1,5	25	24 core + earth	20.1	M32
LAPP-1135402	ÖLFLEX CLASSIC 110 CY 2X2,5	2	2 core - no earth	9.9	M20
LAPP-1135403	ÖLFLEX CLASSIC 110 CY 3G2,5	3	2 core + earth	10.3	M20
LAPP-1135404	ÖLFLEX CLASSIC 110 CY 4G2,5	4	3 core + earth	11.3	M20
LAPP-1135405	ÖLFLEX CLASSIC 110 CY 5G2,5	5	4 core + earth	12.6	M25
LAPP-1135407	ÖLFLEX CLASSIC 110 CY 7G2,5	7	6core + earth	13.9	M25
LAPP-1135412	ÖLFLEX CLASSIC 110 CY 12G2,5	12	11 core + earth	17.6	M32
LAPP-1135502	ÖLFLEX CLASSIC 110 CY 2X4	2	2 core - no earth	11.4	M20
LAPP-1135504	ÖLFLEX CLASSIC 110 CY 4G4	4	3 core + earth	13.4	M25
LAPP-1135505	ÖLFLEX CLASSIC 110 CY 5G4	5	4 core + earth	14.7	M25



ÖLFLEX CLASSIC 115 CY BLACK

EMC SCREENED FLEXIBLE SMALLER OUTER DIAMETER CONTROL CABLE W/ BLACK OUTER SHEATH

#1874



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LAPP KABEL STUTTGART ÖLFLEX® CLASSIC 115 CY CE



Construction

Fine wire strand made of bare copper wires, tinned-copper braiding. Core insulation: PVC. Cores twisted in layers.

Note: Only Black PVC outer sheath suitable for outdoors, UV-weather resistant according to ISO 4892-2.

Minimum Bending Radius

- » Occasional flexing: 20 x outer diameter
- » Fixed installation: 6 x outer diameter

Temperature Rating

- » Occasional Flexing: -5°C to +70°C
- » Fixed installation: -40°C to +80°C

Nominal Voltage

- » U0/U: 300/500 V

Item No	Item Description	Cores	Configuration	OD (mm)
LAPP-1136510	ÖLFLEX CLASSIC 115 CY 2X0,5 BK	2	2 core - no earth	5.8
LAPP-1136512	ÖLFLEX CLASSIC 115 CY 3X0,5 BK	3	3 core - no earth	6.1
LAPP-1136511	ÖLFLEX CLASSIC 115 CY 3G0,5 BK	3	2 core + earth	6.1
LAPP-1136513	ÖLFLEX CLASSIC 115 CY 4G0,5 BK	4	3 core + earth	6.5
LAPP-1136515	ÖLFLEX CLASSIC 115 CY 5G0,5 BK	5	4 core + earth	7
LAPP-1136517	ÖLFLEX CLASSIC 115 CY 7G0,5 BK	7	6core + earth	7.5
LAPP-1136523	ÖLFLEX CLASSIC 115 CY 2X0,75 BK	2	2 core - no earth	6.2
LAPP-1136525	ÖLFLEX CLASSIC 115 CY 3X0,75 BK	3	3 core - no earth	6.5
LAPP-1136110	ÖLFLEX CLASSIC 115 CY 3G0,75 BK	3	2 core + earth	6.5
LAPP-1136111	ÖLFLEX CLASSIC 115 CY 4G0,75 BK	4	3 core + earth	7
LAPP-1136113	ÖLFLEX CLASSIC 115 CY 5G0,75 BK	5	4 core + earth	7.7
LAPP-1136114	ÖLFLEX CLASSIC 115 CY 7G0,75 BK	7	6core + earth	8.3
LAPP-1136535	ÖLFLEX CLASSIC 115 CY 2X1 BK	2	2 core - no earth	6.5
LAPP-1136537	ÖLFLEX CLASSIC 115 CY 3X1 BK	3	3 core - no earth	6.8
LAPP-1136536	ÖLFLEX CLASSIC 115 CY 3G1 BK	3	2 core + earth	6.8
LAPP-1136538	ÖLFLEX CLASSIC 115 CY 4G1 BK	4	3 core + earth	7.3
LAPP-1136540	ÖLFLEX CLASSIC 115 CY 5G1 BK	5	4 core + earth	8.1
LAPP-1136542	ÖLFLEX CLASSIC 115 CY 7G1 BK	7	6core + earth	8.8
LAPP-1136547	ÖLFLEX CLASSIC 115 CY 2X1,5 BK	2	2 core - no earth	7.1
LAPP-1136549	ÖLFLEX CLASSIC 115 CY 3X1,5 BK	3	3 core - no earth	7.5
LAPP-1136548	ÖLFLEX CLASSIC 115 CY 3G1,5 BK	3	2 core + earth	7.5
LAPP-1136550	ÖLFLEX CLASSIC 115 CY 4G1,5 BK	4	3 core + earth	8.2
LAPP-1136552	ÖLFLEX CLASSIC 115 CY 5G1,5 BK	5	4 core + earth	8.9
LAPP-1136554	ÖLFLEX CLASSIC 115 CY 7G1,5 BK	7	6core + earth	9.9

ÖLFLEX CLASSIC 115 CY GREY

EMC SCREENED FLEXIBLE SMALLER OUTER DIAMETER CONTROL CABLE W/ GREY OUTER SHEATH

#1931



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Item No	Item Description	Cores	Configuration	OD (mm)
LAPP-1136752	ÖLFLEX CLASSIC 115 CY 2X0,5	2	2 core - no earth	5.8
LAPP-1136753	ÖLFLEX CLASSIC 115 CY 3X0,5	3	3 core - no earth	6.1
LAPP-1136003	ÖLFLEX CLASSIC 115 CY 3G0,5	3	2 core + earth	6.1
LAPP-1136004	ÖLFLEX CLASSIC 115 CY 4G0,5	4	3 core + earth	6.5
LAPP-1136005	ÖLFLEX CLASSIC 115 CY 5G0,5	5	4 core + earth	7
LAPP-1136007	ÖLFLEX CLASSIC 115 CY 7G0,5	7	6core + earth	7.5
LAPP-1136012	ÖLFLEX CLASSIC 115 CY 12G0,5	12	11 core + earth	9.9
LAPP-1136018	ÖLFLEX CLASSIC 115 CY 18G0,5	18	17 core + earth	11.5
LAPP-1136802	ÖLFLEX CLASSIC 115 CY 2X0,75	2	2 core - no earth	6.2
LAPP-1136803	ÖLFLEX CLASSIC 115 CY 3X0,75	3	3 core - no earth	6.5
LAPP-1136103	ÖLFLEX CLASSIC 115 CY 3G0,75	3	2 core + earth	6.5
LAPP-1136104	ÖLFLEX CLASSIC 115 CY 4G0,75	4	3 core + earth	7
LAPP-1136105	ÖLFLEX CLASSIC 115 CY 5G0,75	5	4 core + earth	7.7
LAPP-1136107	ÖLFLEX CLASSIC 115 CY 7G0,75	7	6core + earth	8.3
LAPP-1136112	ÖLFLEX CLASSIC 115 CY 12G0,75	12	11 core + earth	10.9
LAPP-1136118	ÖLFLEX CLASSIC 115 CY 18G0,75	18	17 core + earth	12.7
LAPP-1136852	ÖLFLEX CLASSIC 115 CY 2X1	2	2 core - no earth	6.5
LAPP-1136853	ÖLFLEX CLASSIC 115 CY 3X1	3	3 core - no earth	6.8
LAPP-1136203	ÖLFLEX CLASSIC 115 CY 3G1	3	2 core + earth	6.8
LAPP-1136204	ÖLFLEX CLASSIC 115 CY 4G1	4	3 core + earth	7.3
LAPP-1136205	ÖLFLEX CLASSIC 115 CY 5G1	5	4 core + earth	8.1
LAPP-1136207	ÖLFLEX CLASSIC 115 CY 7G1	7	6core + earth	8.8
LAPP-1136212	ÖLFLEX CLASSIC 115 CY 12G1	12	11 core + earth	11.5
LAPP-1136218	ÖLFLEX CLASSIC 115 CY 18G1	18	17 core + earth	13.9
LAPP-1136902	ÖLFLEX CLASSIC 115 CY 2X1,5	2	2 core - no earth	7.1
LAPP-1136903	ÖLFLEX CLASSIC 115 CY 3X1,5	3	3 core - no earth	7.5
LAPP-1136303	ÖLFLEX CLASSIC 115 CY 3G1,5	3	2 core + earth	7.5
LAPP-1136304	ÖLFLEX CLASSIC 115 CY 4G1,5	4	3 core + earth	8.2
LAPP-1136305	ÖLFLEX CLASSIC 115 CY 5G1,5	5	4 core + earth	8.9
LAPP-1136307	ÖLFLEX CLASSIC 115 CY 7G1,5	7	6core + earth	9.9
LAPP-1136312	ÖLFLEX CLASSIC 115 CY 12G1,5	12	11 core + earth	13
LAPP-1136318	ÖLFLEX CLASSIC 115 CY 18G1,5	18	17 core + earth	15.6

ecs

SCREEN CONTROL CABLE



ÖLFLEX® 100 Series

MULTI-CORE FLEX WITH COLOURED CORES

#20



SEARCH ON EXPRESS.ECSNZ.COM

LAPP KABEL STUTTGART ÖLFLEX® CLASSIC 100

CE



Construction

- » Flexible Class 5 fine wire stranding
- » PVC inner insulation material
- » Grey PVC outer sheath

Minimum Bending Radius

- » Flexing: 15 x cable OD
- » Fixed: 4 x cable

Temperature Rating

- » Flexing: -5 to 70
- » Fixed: -40 to 80

Nominal Voltage

- » 300/500V (<1.5mm)
- » 600/1000V (>=2.5mm)

Item No	Conductor Size	Description	Conductor Colours	OD
2 Core				
100004	0.5mm	2 core	Blue, Brown	4.8mm
100214	0.75mm	2 core	Blue, Brown	5.4mm
100414	1.0mm	2 core	Blue, Brown	5.7mm
100634	1.5mm	2 core	Blue, Brown	6.3mm
10086	2.5mm	2 core	Blue, Brown	8.9mm
3 core (2 core + earth)				
100014	0.5mm	2 core + earth	Blue, Brown, Green/Yellow	5.1mm
100224	0.75mm	2 core + earth	Blue, Brown, Green/Yellow	5.7mm
100424	1.0mm	2 core + earth	Blue, Brown, Green/Yellow	6.0mm
100644	1.5mm	2 core + earth	Blue, Brown, Green/Yellow	6.7mm
10087	2.5mm	2 core + earth	Blue, Brown, Green/Yellow	9.6mm
4 core (3 core + earth)				
100434	1.0mm	3 core + earth	Brown, Black, Grey, Green/Yellow	6.5mm
100654	1.5mm	3 core + earth	Brown, Black, Grey, Green/Yellow	7.2mm
100883	2.5mm	3 core + earth	Brown, Black, Grey, Green/Yellow	10.7mm



2 Core

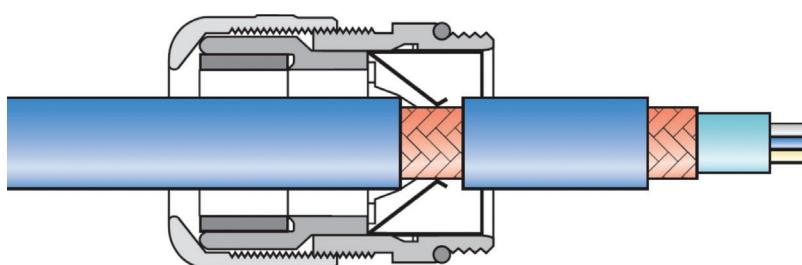


3 core (2 core + earth)



4 core (3 core + earth)

For the perfect Screened Gland,
try SKINTOP EMC...



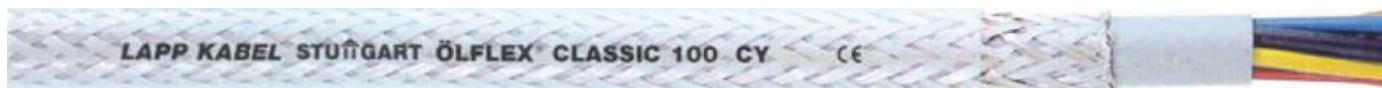
ÖLFLEX 100CY Series

EMC SCREENED FLEXIBLE POWER CABLE WITH COLOURED CORES

#24



SEARCH ON EXPRESS.ECSNZ.COM



Construction

Flexible Class 5 fine wire stranding, PVC inner insulation material and transparent PVC outer sheath. Tinned copper braid screen with high coverage.

Minimum Bending Radius

- » Flexing: 20 x cable OD
- » Fixed: 6 x cable OD

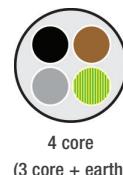
Temperature Rating

- » Flexing: -5 to 70
- » Fixed: -40 to 80

Nominal Voltage

- » Flexing <= 1.0mm 300/500V
- >= 1.5mm 450/750V
- » Fixed >= 1.5mm 600/1000V

Item No	Cores	Conductor	Description	Conductor Colours	OD	Suitable Gland
4 core (3 core + earth)						
352223	4	1.0mm	3 core + earth	Brown, Black, Grey, Green/Yellow	8.7mm	M20 EMC
354593	4	1.5mm	3 core + earth	Brown, Black, Grey, Green/Yellow	11.3mm	M20 EMC
350173	4	2.5mm	3 core + earth	Brown, Black, Grey, Green/Yellow	13.5mm	M25 EMC
350183	4	4mm	3 core + earth	Brown, Black, Grey, Green/Yellow	15.1mm	M25/M32 EMC
350193	4	6mm	3 core + earth	Brown, Black, Grey, Green/Yellow	16.6mm	M32 EMC
350213	4	10mm	3 core + earth	Brown, Black, Grey, Green/Yellow	21.1mm	M40 EMC
350223	4	16mm	3 core + earth	Brown, Black, Grey, Green/Yellow	23.9mm	M40 EMC
350233	4	25mm	3 core + earth	Brown, Black, Grey, Green/Yellow	29.4mm	M50 EMC
350253	4	35mm	3 core + earth	Brown, Black, Grey, Green/Yellow	32.4mm	M50 EMC
350273	4	50mm	3 core + earth	Brown, Black, Grey, Green/Yellow	38.8mm	M63 EMC
350283	4	70mm	3 core + earth	Brown, Black, Grey, Green/Yellow	43.7mm	M63 EMC
350293	4	95mm	3 core + earth	Brown, Black, Grey, Green/Yellow	50.4mm	M63 Plus EMC



4 core
(3 core + earth)

ULTRA SCREEN VSD Black

DOUBLE EMC SCREENED CABLE WITH 100% SCREEN COVERAGE

#24



SEARCH ON EXPRESS.ECSNZ.COM



Conductors

Fine strands of bare copper wire acc. to IEC 60228 resp. VDE 0295, Class 5

Core Insulation

- » PVC

Core Colour

- » Red, White, Blue, Green/Yellow

Screening

- » 1st: Pure copper foil
- » 2nd Tinned copper wire braiding

Outer Sheath

- » UV Resistant PVC

Sheath Colour

- » Black

Rated Voltage

- » 0.6/1 kV

Test Voltage

- » 4 kV

Minimum Bending Radius

- » 4 x cable diameter (fixed installation)

Temperature Range

- » -20 to +90

Flame Retardant

- » In acc. to IEC 60332-1-2

Standards

- » In acc. to AS/NZS 5000.1

Item No	Conductor	Cable OD	Suitable Gland	Item No
Single Earth				
3804245A	4G 1.5mm	13.3	M25 EMC	53112671
3804246A	4G 2.5mm	14	M25 EMC	53112676
3804247A	4G 4mm	16.5	M32 EMC	53112677
Split Earth				
3804269A	3x6 + 3x1.5mm	17	M32 EMC	53112677
3804261A	3x10 + 3x1.5mm	19	M32 EMC	53112677
3804270A	3x16 + 3x2.5mm	22	M40 EMC	53112678
3804263A	3x25 + 3x4mm	25.5	M40 EMC	53112678
3804264A	3x35 + 3x6mm	29	M50 EMC	53112679
3804265A	3x50 + 3x10mm	36	M63 EMC	53112680
3804266A	3x70 + 3x10mm	41.1	M63 EMC	53112680



Single Earth



Split Earth

SIZES UP TO 240MM AVAILABLE ON REQUEST

The new LAPP VSD ULTRA gets its name from the special ULTRA performance screen. This innovation in design has a 100% copper wrap screen, reducing the resistance of the screen compared to traditional flexible VSD cables.

ÖLFLEX SERVO 719 CY

SCREENED SERVO CABLE WITH PVC OUTER SHEATH FOR STATIC USE

#1889



SEARCH ON EXPRESS.ECSNZ.COM

LAPP KABEL STUTTGART ÖLFLEX® SERVO 719 CY DESINA® CE



Construction

Fine wire stranding, polypropylene (PP) inner insulation material and PVC outer sheath, orange. Individual design depending on the item: Power cores without or with one or two individually shielded control core pairs twisted together in short lay lengths; Power cores with control core triplet twisted together in short lay lengths.

Minimum Bending Radius

- » Flexing: 15 x cable OD
- » Fixed: 6 x cable OD

Temperature Rating

- » Flexing: -5°C to 60°C (UL: +80°C)
- » Fixed: -40°C to 80°C

Nominal Voltage

- » IEC: 600/1000V
- » UL & CSA: 1000V

Item No	Cores	Conductor	Description	Control Cores	OD (mm)
0.75mm					
1020024	4	0.75mm	3 Core + Earth	2x(2x0,34)	9.7
1.5mm					
1020025	4	1.5mm	3 Core + Earth	2x(2x0,75)	12.3
1020045	4	1.5mm	3 Core + Earth	2x1,0	10.8
1020019	4	1.5mm	3 Core + Earth	2x1,5	11.5
2.5mm					
1020026	4	2.5mm	3 Core + Earth	2x(2x1)	14.7
1020046	4	2.5mm	3 Core + Earth	2x1,0	12.1
1020054	4	2.5mm	3 Core + Earth	3x1,0	12.9

Item No	Cores	Conductor	Description	Control Cores	OD (mm)
4mm					
1020021	4	1.5mm	3 Core + Earth	2x1,5	15
10mm					
1020023	4	1.5mm	3 Core + Earth	2x1,5	19.5
16mm					
1020031	4	1.5mm	3 Core + Earth	2x1,5	25

ÖLFLEX SERVO FD 796 CP

HIGHLY FLEXIBLE SCREENED SERVO CABLE FOR HARSH CONDITION DRAG CHAIN APPLICATIONS

#1889



LAPP KABEL STUTTGART ÖLFLEX® SERVO FD 796 CP CE

Construction

Extra-fine wire strand made of bare copper wires (class 6) Core insulation: polypropylene (PP), Individual design depending on the item: Power cores without or with one or two individually shielded control core pairs twisted together in short lay lengths; Power cores with control core triplet twisted together in short lay lengths, Non-woven wrapping, Tinned-copper braiding, PUR outer sheath, orange (RAL 2003).

Minimum Bending Radius

- » Flexing: up from 7.5 x OD (up to 16mm²)
- » Flexing: up from 10 x OD (from 25mm²)
- » Fixed installation: 4 x OD

Temperature Rating

- » Flexing: -40°C to 90°C (UL/CSA: +80°C)
- » Fixed installation: -50°C to 90°C
- » (UL/CSA: +80°C)

Nominal Voltage

- » Power cores and control cores:
- » IEC U0/U: 600/1000 V
- » UL & CSA: 1000 V

Item No	Cores	Conductor	Description	Control Cores	OD (mm)
1.5mm					
0027950	4	1.5mm	4 cores + earth	-	9.1
0027959	4	1.5mm	4 cores + earth	2 x 1.5mm	11.6
0027969	4	1.5mm	4 cores + earth	2 x(2x0.75mm)	12.2
2.5mm					
0027951	4	2.5mm	4 cores + earth	-	10.6
0027960	4	2.5mm	4 cores + earth	2 x 1.5mm	13.4
0027970	4	2.5mm	4 cores + earth	2 x(2x1mm)	14.6
4mm					
0027952	4	4mm	4 cores + earth	-	11.9
0027961	4	4mm	4 cores + earth	2 x 1.5mm	14.8
0027980	4	4mm	4 cores + earth	2x(2x1,0)	16.1

Item No	Cores	Conductor	Description	Control Cores	OD (mm)
6mm					
0027962	4	6mm	4 cores + earth	2 x 1.5mm	16.8
0027972	4	6mm	4 cores + earth	(2x1)+(2x1,5)	18.1
10mm					
0027963	4	10mm	4 cores + earth	2 x 1.5mm	19.4
0027973	4	10mm	4 cores + earth	(2x1)+(2x1,5)	21.8
16mm					
0027955	4	16mm	4 cores + earth	-	21.6
0027964	4	16mm	4 cores + earth	2 x 1.5mm	23.1
0027974	4	16mm	4 cores + earth	2 x(2x1.5mm)	25.5

ÖLFLEX SERVO FD 798 CP

HIGHLY FLEXIBLE SCREENED ENCODER CABLE FOR HARSH CONDITION DRAG CHAIN APPLICATIONS

#1889



LAPP KABEL STUTTGART ÖLFLEX® SERVO FD 798 CP



Construction

Super flexible Class 6 fine wire stranding, green PUR outer sheath for extra chemical resistance. Tinned copper braid screen with high coverage.

Minimum Bending Radius

- Flexing: 7.5 x cable OD
- Fixed: 4 x cable OD

Temperature Rating

- Flexing: -40°C to 90°C

Item No	Description	OD (mm)
0036915	4x2x0.25mm + 2x1mm	8.8
0036916	6x2x0.25mm + 2x0.5mm	10.3
0036921	4x2x0.25mm	7.6

ÖLFLEX FD CLASSIC 810 Series

ULTRA-FLEXIBLE DRAGCHAIN CABLE

#28



SEARCH ON EXPRESS.ECSNZ.COM



Construction

- » Super flexible Class 6 fine wire stranding,
- » PVC inner insulation material
- » PVC outer sheath.

Minimum Bending Radius

- » 7.5 x cable OD
- » 4 x cable OD

Temperature Rating

- » 0 to 70
- » -40 to 70

Standards

- » 300/500V

Item No	Cores	Conductor	Description	OD
0.5mm Conductors				
26100	2	0.5mm	2 core - No Earth	5.8mm
26101	3	0.5mm	2 core + earth	6.2mm
26103	5	0.5mm	4 core + earth	7.3mm
26104	7	0.5mm	6 core + earth	8.5mm
26105	12	0.5mm	11 core + earth	10mm
26106	18	0.5mm	17 core + earth	12mm
26107	25	0.5mm	24 core + earth	14.9mm
0.75mm Conductors				
26119	2	0.75mm	2 core - No Earth	6.2mm
26120	3	0.75mm	2 core + earth	6.7mm
26121	4	0.75mm	3 core + earth	7.3mm
26122	5	0.75mm	4 core + earth	7.9mm
26123	7	0.75mm	6 core + earth	9.4mm
26124	12	0.75mm	11 core + earth	11.2mm
26126	18	0.75mm	17 core + earth	13.3mm
26127	25	0.75mm	24 core + earth	15.9mm

Item No	Cores	Conductor	Description	OD
1mm Conductors				
26130	2	1mm	2 core - No Earth	6.6mm
26131	3	1mm	2 core + earth	7.1mm
26132	4	1mm	3 core + earth	7.8mm
26133	5	1mm	4 core + earth	8.5mm
26134	7	1mm	6 core + earth	10.1mm
26135	12	1mm	11 core + earth	12mm
26138	18	1mm	17 core + earth	14.5mm
26139	25	1mm	24 core + earth	17.8mm
1.5mm Conductors				
26149	2	1.5mm	2 core - No Earth	7.3mm
26150	3	1.5mm	2 core + earth	7.9mm
26151	4	1.5mm	3 core + earth	8.6mm
26153	7	1.5mm	6 core + earth	11.5mm
26154	12	1.5mm	11 core + earth	13.5mm
26156	18	1.5mm	17 core + earth	16.3mm
26157	25	1.5mm	24 core + earth	20mm
2.5mm Conductors				
26170	3	2.5mm	2 core + earth	9.5mm
26171	4	2.5mm	3 core + earth	10.5mm
26172	5	2.5mm	4 core + earth	13.8mm

ÖLFLEX FD CLASSIC 810 CY Series

ULTRA-FLEXIBLE DRAGCHAIN CABLE - SCREENED

#27



SEARCH ON EXPRESS.ECSNZ.COM



Construction

- » Super flexible Class 6 fine wire stranding
- » PVC inner insulation material
- » Grey PVC outer sheath.
- » Tinned copper braid screen with high coverage.

Minimum Bending Radius

- » 7.5 x cable OD
- » 4 x cable OD

Temperature Rating

- » 0 to 70
- » -40 to 70

Nominal Voltage

- » 300/500V

Item No	Cores	Conductor	Description	OD
0.75mm Conductors				
26221	4	0.75mm	3 core + earth + screen	8.3mm
1mm Conductors				
26232	4	1mm	3 core + earth + screen	9.4mm
26234	7	1mm	6 core + earth + screen	12mm
26235	12	1mm	11 core + earth + screen	14mm
26239	25	1mm	24 core + earth + screen	20.2mm
1.5mm Conductors				
26251	4	1.5mm	3 core + earth + screen	10.4mm
26254	12	1.5mm	11 core + earth + screen	15.8mm
2.5mm Conductors				
26271	4	2.5mm	3 core + earth + screen	12.4mm
26273	7	2.5mm	6 core + earth + screen	16.5mm
4mm Conductors				
26281	4	4mm	3 core + earth + screen	14.3mm

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H07RN-F Rubber Series

HEAVY DUTY FLEX WITH COLOURED CORES

#21



SEARCH ON EXPRESS.ECSNZ.COM

LAPP KABEL

H07RN-F

HEAVY DUTY RUBBER



Construction

- » Flexible Class 5 fine wire stranding
- » Rubber inner insulation material
- » Black neoprene rubber outer sheath

Minimum Bending Radius

- » Flexing: 6 x cable OD
- » Fixed: 6 x cable OD

Temperature Rating

- » Flexing: -25 to 60
- » Fixed: -25 to 60

Nominal Voltage

- » 450/750V (flexible use)
- » 600/1000V (fixed and protected)

Item No	Conductor Size	Description	Conductor Colours	OD
2 core (no earth)				
393808220	0.75mm	2 core	Blue, Brown	6mm
393808221	1mm	2 core	Blue, Brown	7mm
393807121	1.5mm	2 core	Blue, Brown	9.5mm
393807122	2.5mm	2 core	Blue, Brown	11.5mm
393807123	4mm	2 core	Blue, Brown	13mm
3 core (2 core + earth)				
393808230	0.75mm	2 core + earth	Blue, Brown, Green/Yellow	7mm
393807140	1mm	2 core + earth	Blue, Brown, Green/Yellow	7.5mm
393807141	1.5mm	2 core + earth	Blue, Brown, Green/Yellow	10.5mm
393807142	2.5mm	2 core + earth	Blue, Brown, Green/Yellow	11.9mm
393807143	4mm	2 core + earth	Blue, Brown, Green/Yellow	13.9mm
393807144	6mm	2 core + earth	Blue, Brown, Green/Yellow	14.4mm
4 core (3 core + earth)				
393807161	1.5mm	3 core + earth	Brown, Black, Grey, Green/Yellow	11.3mm
393807162	2.5mm	3 core + earth	Brown, Black, Grey, Green/Yellow	13.4mm
393807163	4mm	3 core + earth	Brown, Black, Grey, Green/Yellow	15.4mm
393807164	6mm	3 core + earth	Brown, Black, Grey, Green/Yellow	17.3mm
5 core (4 core + earth)				
393807181	1.5mm	4 core + earth	Brown, Black, Grey, Blue, Green/Yellow	12.7mm
393807182	2.5mm	4 core + earth	Brown, Black, Grey, Blue, Green/Yellow	15.2mm
393807183	4mm	4 core + earth	Brown, Black, Grey, Blue, Green/Yellow	17.6mm
393807184	6mm	4 core + earth	Brown, Black, Grey, Blue, Green/Yellow	18.8mm
16001093 / 393807185	10mm	4 core + earth	Brown, Black, Grey, Blue, Green/Yellow	28mm
16001113 / 393807186	16mm	4 core + earth	Brown, Black, Grey, Blue, Green/Yellow	31.9mm
16001133 / 393807187	25mm	4 core + earth	Brown, Black, Grey, Blue, Green/Yellow	37.5mm



2 core (no earth)



3 core (2 core + earth)



4 core (3 core + earth)



5 core (4 core + earth)



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ÖLFLEX ROBUST 200

ALL-WEATHER CONTROL CABLE CHEMICAL RESISTANT WITH COLOURED CORES

#237



EXPRESS.ECSNZ.COM

LAPP KABEL STUTTGART ÖLFLEX® ROBUST 200 CE

Construction

Fine wire, bare copper conductors, Core insulation made of modified PP, Cores twisted in layers, Outer sheath made of special black TPE. Up to 5 cores: colour-coded. From 6 cores: black with white numbers

Minimum Bending Radius

- » Flexing: 10 x OD
- » Fixed installation: 4 x OD

Temperature Rating

- » Flexing: -40°C to +80°C
- » Fixed installation: -50°C to +80°C

Nominal Voltage

- » U0/U: 450/750 V

Item No	Cores	Description	OD (mm)
1.0mm			
0021801	3	2 Core + Earth	8.4
0021802	4	3 Core + Earth	9.2
0021803	5	4 Core + Earth	10
1.5mm			
0021806	3	2 Core + Earth	9.1
0021807	4	3 Core + Earth	9.9
0021809	7	6 Core + Earth	13.5

Item No	Cores	Description	OD (mm)
2.5mm			
0021812	4	3 Core + Earth	11.5
4mm			
0021817	4	3 Core + Earth	14

ÖLFLEX ROBUST 210

ALL-WEATHER CONTROL CABLE RESISTANT TO A WIDE RANGE OF CHEMICAL MEDIA

#237



EXPRESS.ECSNZ.COM

LAPP KABEL STUTTGART ÖLFLEX® ROBUST 210 CE

Construction

Fine-wire, bare copper conductor, Core insulation made of modified PP, Cores twisted in layers, Outer sheath made of special TPE.

Minimum Bending Radius

- » Occasional flexing: 15 x OD
- » Fixed installation: 4 x OD

Temperature Rating

- » Occasional flexing: -40°C to +80°C
- » Fixed installation: -50°C to +80°C

Nominal Voltage

- » U0/U: 300/500 V

Item No	Cores	Description	OD (mm)
0.5mm			
0021880	2	2 core - no earth	4.9
0021881	3	2 Core + Earth	5.2
0021883	4	3 Core + Earth	5.8
0021885	5	4 Core + Earth	6.3
0021888	7	6 Core + Earth	6.9
0021891	12	11 Core + Earth	9.1
0021892	18	17 Core + Earth	10.8
0021893	25	24 Core + Earth	12.7

Item No	Cores	Description	OD (mm)
1.0mm			
0021914	3	2 Core + Earth	6.1
0021916	4	3 Core + Earth	6.6
0021918	5	4 Core + Earth	7.3
0021920	7	6 Core + Earth	8.1
0021922	12	11 Core + Earth	10.7
0021923	18	17 Core + Earth	12.9
0021924	25	24 Core + Earth	15

Item No	Cores	Description	OD (mm)
1.5mm			
0021928	2	2 core - no earth	6.4
0021929	3	2 Core + Earth	6.8
0021931	4	3 Core + Earth	7.4
0021933	5	4 Core + Earth	8.3
0021936	7	6 Core + Earth	9
0021940	12	11 Core + Earth	12.2
0021941	18	17 Core + Earth	14.6
0021942	25	24 Core + Earth	17.2
0021943	34	33 Core + Earth	19.8
2.5mm			
0021946	2	2 core + no earth	7.6
0021947	3	2 Core + Earth	8.3
0021949	4	3 Core + Earth	9
0021953	7	6 Core + Earth	11.2
0021954	12	11 Core + Earth	15.1

ÖLFLEX ROBUST 215 C

ALL-WEATHER CONTROL CABLE SCREENED & RESISTANT TO A WIDE RANGE OF CHEMICAL MEDIA

#237



EXPRESS.ECSNZ.COM

LAPP KABEL STUTTGART ÖLFLEX® ROBUST 215 C CE

Construction

Fine-wire, bare copper conductor, Core insulation made of modified PP, Cores twisted in layers, Halogen-free plastic foil wrapping, Tinned copper screen braiding, Outer sheath made of special TPE.

Minimum Bending Radius

- » Occasional flexing: 20 x OD
- » Fixed installation: 6 x OD

Temperature Rating

- » Occasional flexing: -40°C to +80°C
- » Fixed installation: -50°C to +80°C

Nominal Voltage

- » U0/U: 300/500 V

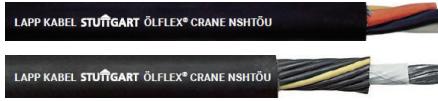
Item No	Cores	Description	OD (mm)
0.5mm			
0022701	3	2 Core + Earth + screen	6.2
0022703	4	3 Core + Earth + screen	6.6
0022705	5	4 Core + Earth + screen	7.1
0022708	7	6 Core + Earth + screen	7.7
0022711	12	11 Core + Earth + screen	10.1
0022712	18	17 Core + Earth + screen	11.8
0022713	25	24 Core + Earth + screen	13.7
1.0mm			
0022734	3	2 Core + Earth + screen	6.9
0022736	4	3 Core + Earth + screen	7.4
0022738	5	4 Core + Earth + screen	8.3
0022740	7	6 Core + Earth + screen	8.9
0022742	12	11 Core + Earth + screen	11.7
0022743	18	17 Core + Earth + screen	14.1
0022744	25	24 Core + Earth + screen	16.2

Item No	Cores	Description	OD (mm)
1.5mm			
0022749	3	2 Core + Earth + screen	7.6
0022751	4	3 Core + Earth + screen	8.4
0022753	5	4 Core + Earth + screen	9.1
0022756	7	6 Core + Earth + screen	10
0022760	12	11 Core + Earth + screen	13.4
0022761	18	17 Core + Earth + screen	15.8
0022762	25	24 Core + Earth + screen	18.2
2.5mm			
0022767	3	3 Core + Earth + screen	9.1
0022768	4	3 Core + Earth + screen	10
0022770	7	6 Core + Earth + screen	12



ÖLFLEX REELING & LIFTING CABLE

For use in hoists, transport and conveyor systems. Cables are reeled, unreeled, and guided by roller trains. In dry or damp interiors, outdoors, or not more than 2 weeks without interruption in industrial water.



CRANE NSHTÖU

Reelable cables for low and medium mechanical stress. Robust and efficient, suitable for outdoor use, integrated sheath supporting braid.



CRANE VS (N) SHTÖU

Reelable cables for medium to high mechanical stress. Reinforced outer sheath design, central and tear-resistant supporting element. Suitable for extreme tensile stress.



CRANE PUR

Reelable polyurethane cables for low, medium and high mechanical stress. Multifunctional application possibilities, flexible use down to -40°C, lightweight, halogen-free.



CRANE

Highly flexible and weather-proof rubber cables with support element. Suitable for outdoor use, integrated supporting element, also suitable for power chains and cable trolley systems.



CRANE F

Weather-resistant flat rubber cables. For outdoor cable trolley application Space-saving installation. Also suitable for power chains and lift applications.



CRANE CF

Weather-resistant flat rubber cables with copper screening. For use in crane systems on building sites and shipyards for fixed installation, or for flexible use in cable trolley systems. EMC-compliant.



CRANE 2ST

Flexible at cold temperatures, PVC cables with external steel supporting elements. For connecting movable control panels & consoles, self-supporting shaft cable; in high racking.



LIFT F

Flexible at cold temperatures, PVC flat cables. For cable trolley application space-saving installation, also suitable for power chains and lift applications.



LIFT N

Flexible at cold temperatures, PVC lift cables with supporting element. Lift cable that ensures the electrical integrity in various areas of lift construction, suitable for use in outdoor lifts.

Expanded Ambient Temperature Cable

LAPP's heat resistant wire features silicon and finely stranded tinned copper for high quality functionality and high levels of heat protection. High temperature cable options include resistance to UV-radiation, abrasion, and tears. Further options include outstanding resistance to oil and weather, and high flame resistance.



HEAT 125 SC



Versatile single core cable suitable for use in ambient temperature. Ranging from -55°C to 125°C Available in 12 different colours and 18 sizes (0.5mm to 240mm) Robust and efficient, suitable for outdoor use, integrated sheath supporting braid.



HEAT 125 MC / C MC

Screened (C MC) and unscreened (MC) electron beam cross-linked cables. For use in ambient temperature ranging from -55°C to 125°C Available in number and colour coded versions.

HEAT 180 SiF

Versatile single core cable with extended ambient temperature. Ranging from -50°C to 180°C Available in 12 different colours and 18 sizes (0.25mm to 185mm).

HEAT 180 SiHF

Silicone cables with extended ambient temperature. Ranging from -50°C to 180°C Available in number and colour coded versions.

HEAT 260 SC

PTFE single core cables for the most extreme loads. Ranging from -190°C to +260°C with outstanding resistance against acids, alkalis, solvents, lacquers, petrol, oils and many other chemical media.

HEAT 260 MC

PTFE cables for the most extreme loads. Ranging from -190°C to +260°C with Outstanding resistance against acids, alkalis, solvents, lacquers, petrol, oils and many other chemical media.



SCAN TO VIEW MORE ONLINE

Explore our wide range of Expanded Ambient Temperature Cables Online

<https://express.ecsnz.com/heat-resistant-cable> | For all the latest technologies, pricing, stock and ordering.



ÖLFLEX 128 H BK

LOW SMOKE HALOGEN-FREE POWER CABLE, WITH IMPROVED FIRE CHARACTERISTICS

#27



SEARCH ON EXPRESS.ECSNZ.COM

LAPP KABEL STUTTGART ÖLFLEX® CLASSIC 128 H BK 0,6/1kV HFFR IEC 60332-3 CE

LAPP KABEL STUTTGART ÖLFLEX® CLASSIC 128 H BK 0,6/1kV HFFR IEC 60332-3 CE

LSZH POWER & CONTROL CABLE

eCS

Construction

- » Fine-wire strand made of bare copper wires.
- » Core insulation: Halogen-free.
- » Outer sheath: Special halogen-free compound, black.

Minimum Bending Radius

- » Occasional flexing: 15 x OD
- » Fixed installation: 4 x OD

Core Identification Code:

- » Up to 5 cores: colour-coded according to VDE 0293-308
- » From 6 cores: black with white numbers

Temperature Rating

- » Occasional flexing: -5°C to +70°C
- » Fixed installation: -40°C to +80°C

Nominal Voltage

- » U0/U: 600/1000 V
- » Test Voltage: 4000 V

Item No	Cores	Conductor	Description	OD (mm)
1mm				
1123520	2	1mm	2 core (no earth)	7.4
1123521	3	1mm	2 Core + Earth	7.8
1123522	4	1mm	3 Core + Earth	8.4
1123523	5	1mm	4 Core + Earth	9.2
1123524	7	1mm	6 Core + Earth	9.9
1123525	12	1mm	11 Core + Earth	12.8
1.5mm				
1123528	2	1.5mm	2 core (no earth)	8.4
1123529	3	1.5mm	2 Core + Earth	8.9
1123530	4	1.5mm	3 Core + Earth	9.6
1123531	5	1.5mm	4 Core + Earth	10.5
1123532	7	1.5mm	6 Core + Earth	11.4
1123533	12	1.5mm	11 Core + Earth	15.1

Item No	Cores	Conductor	Description	OD (mm)
2.5mm				
1123537	3	2.5mm	2 Core + Earth	10.1
1123538	4	2.5mm	3 Core + Earth	11
1123539	5	2.5mm	4 Core + Earth	12.1
1123541	12	2.5mm	11 Core + Earth	17.9
4mm				
1123545	4	4mm	3 Core + Earth	12.5
1123546	5	4mm	4 Core + Earth	13.7
6mm				
1123548	4	6mm	3 Core + Earth	13.9

ÖLFLEX 128 CH BK

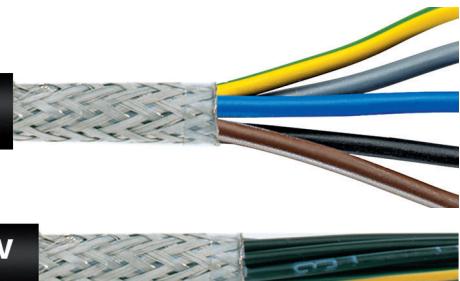
SCREENED LSHF POWER CABLE, W/ IMPROVED FIRE CHARACTERISTICS

#27



SEARCH ON EXPRESS.ECSNZ.COM

LAPP KABEL STUTTGART ÖLFLEX® CLASSIC 128 CH BK 0,6/1kV
HFFR IEC 60332-3 CE



LAPP KABEL STUTTGART ÖLFLEX® CLASSIC 128 CH BK 0,6/1kV
HFFR IEC 60332-3 CE

Construction

- Fine-wire strand made of bare copper wires. Core insulation: Halogen-free. Halogen-free plastic foil wrapping. Tinned-copper braiding. Outer sheath made of special halogen-free compound, black.

Minimum Bending Radius

- » Occasional flexing: 20 x OD
- » Fixed installation: 6 x OD
- » Core Identification Code:
- » Up to 5 cores: colour-coded according to VDE 0293-308
- » From 6 cores: black with white numbers

Temperature Rating

- » Occasional flexing: -5°C to +70°C
- » Fixed installation: -40°C to +80°C

Nominal Voltage

- » U0/U: 600/1000 V

Test Voltage:

- » Core/core: 4000 V
- » Core/screen: 2000 V

Item No	Cores	Conductor	Description	OD (mm)
1mm				
1123520	2	1mm	2 core (no earth)	7.4
1123521	3	1mm	2 Core + Earth	7.8
1123522	4	1mm	3 Core + Earth	8.4
1123523	5	1mm	4 Core + Earth	9.2
1123524	7	1mm	6 Core + Earth	9.9
1123525	12	1mm	11 Core + Earth	12.8
1.5mm				
1123528	2	1.5mm	2 core (no earth)	8.4
1123529	3	1.5mm	2 Core + Earth	8.9
1123530	4	1.5mm	3 Core + Earth	9.6
1123531	5	1.5mm	4 Core + Earth	10.5
1123532	7	1.5mm	6 Core + Earth	11.4
1123533	12	1.5mm	11 Core + Earth	15.1

Item No	Cores	Conductor	Description	OD (mm)
2.5mm				
1123537	3	2.5mm	2 Core + Earth	10.1
1123538	4	2.5mm	3 Core + Earth	11
1123539	5	2.5mm	4 Core + Earth	12.1
1123541	12	2.5mm	11 Core + Earth	17.9
4mm				
1123545	4	4mm	3 Core + Earth	12.5
1123546	5	4mm	4 Core + Earth	13.7
6mm				
1123548	4	6mm	3 Core + Earth	13.9

ÖLFLEX CLASSIC 130H

HALOGEN-FREE CONTROL CABLE WITH IMPROVED FIRE CHARACTERISTICS

#27



SEARCH ON EXPRESS.ECSNZ.COM

LAPP KABEL STUTTGART ÖLFLEX® CLASSIC 130 H HFFR IEC 60332.3 CE AWM Style 21089 75° 600V E63634

Construction

- » Fine-wire strand made of bare copper wires.
- » Core insulation: Halogen-free.
- » Outer sheath: Special halogen-free
- » Compound, grey

Minimum Bending Radius

- » Occasional flexing: 15 x OD
- » Fixed installation: 4 x OD

Temperature Rating

- » Occasional flexing: -25°C to +70°C
- » Fixed installation: -40°C to +80°C

Nominal Voltage

- » U0/U: 600/1000 V

Test Voltage

- » 4000 V

Item No	Cores	Conductor	Description	OD (mm)
0.5mm				
1123000	2	0.5mm	2 core (no earth)	5.1
1123001	3	0.5mm	2 Core + Earth	5.4
1123003	4	0.5mm	3 Core + Earth	5.8
1123008	7	0.5mm	6 Core + Earth	6.9
1123013	12	0.5mm	11 Core + Earth	9.1
0.75mm				
1123033	3	0.75mm	2 Core + Earth	5.8
1123035	4	0.75mm	3 Core + Earth	6.3
1123037	5	0.75mm	4 Core + Earth	6.9
1123041	7	0.75mm	6 Core + Earth	7.5
1123047	12	0.75mm	11 Core + Earth	10.1
1mm				
1123066	2	1mm	2 core (no earth)	5.8
1123067	3	1mm	2 Core + Earth	6.1
1123069	4	1mm	3 Core + Earth	6.6
1123071	5	1mm	4 Core + Earth	7.3
1123074	7	1mm	6 Core + Earth	8.1
1123080	12	1mm	11 Core + Earth	10.7

Item No	Cores	Conductor	Description	OD (mm)
1.5mm				
1123106	2	1.5mm	2 core (no earth)	6.4
1123107	3	1.5mm	2 Core + Earth	6.8
1123109	4	1.5mm	3 Core + Earth	7.4
1123111	5	1.5mm	4 Core + Earth	8.3
1123114	7	1.5mm	6 Core + Earth	9
1123118	10	1.5mm	9 Core + Earth	11.8
1123120	12	1.5mm	11 Core + Earth	12.2
2.5mm				
1123140	3	2.5mm	2 Core + Earth	8.3
1123142	4	2.5mm	3 Core + Earth	9
1123144	5	2.5mm	4 Core + Earth	10.1
1123146	7	2.5mm	6 Core + Earth	11.2
1123149	12	2.5mm	11 Core + Earth	15.1
4mm				
1123160	4	4mm	3 Core + Earth	10.8
1123161	5	4mm	4 Core + Earth	12.1
6mm				
1123167	4	6mm	3 Core + Earth	13
1123168	5	6mm	4 Core + Earth	14.5

ÖLFLEX 135 CH

SCREENED HALOGEN-FREE CONTROL CABLE WITH IMPROVED FIRE CHARACTERISTICS

#27



SEARCH ON EXPRESS.ECSNZ.COM

LAPP KABEL STUTTGART ÖLFLEX® CLASSIC 135 CH HFFR IEC 60332.3 RoHS CE AWM Style 21089 75° 600V E63634

Construction

- » Fine-wire strand made of bare copper wires.
- » Core insulation: Halogen-free.
- » Outer sheath: Special halogen-free
- » Compound, grey
- » Tinned-copper braiding

Minimum Bending Radius

- » Occasional flexing: 20 x OD

Temperature Rating

- » Occasional flexing: -25°C to +70°C

Nominal Voltage

- » U0/U: 300/500 V

Test Voltage

- » 4000 V

Item No	Cores	Conductor	Description	OD (mm)
1mm				
1123266	2	1mm	2 core (no earth)	6.6
1123267	3	1mm	2 Core + Earth	6.9
1123269	4	1mm	3 Core + Earth	7.4
1123271	5	1mm	4 Core + Earth	8.3
1123274	7	1mm	6 Core + Earth	8.9
1123280	12	1mm	11 Core + Earth	11.7
1123284	18	1mm	17 Core + Earth	14.1
1.5mm				
1123307	3	1.5mm	2 Core + Earth	7.6
1123309	4	1.5mm	3 Core + Earth	8.4
1123311	5	1.5mm	4 Core + Earth	9.1
1123314	7	1.5mm	6 Core + Earth	10
1123320	12	1.5mm	11 Core + Earth	13.4

Item No	Cores	Conductor	Description	OD (mm)
2.5mm				
1123339	2	2.5mm	2 core (no earth)	8.6
1123340	3	2.5mm	2 Core + Earth	9.1
1123342	4	2.5mm	3 Core + Earth	10
1123346	7	2.5mm	6 Core + Earth	12
4mm				
1123359	3	4mm	2 Core + Earth	10.6
1123360	4	4mm	3 Core + Earth	11.8
6mm				
1123367	4	6mm	3 Core + Earth	14.2
1123372	4	10mm	3 Core + Earth	17.2

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LSZH CONTROL CABLE

UL Approved Cables for Export to the USA & Canada

UL approved products are required on all industrial machines being exported to the USA. This is required by the NFPA 79 regulations. The purpose of UL approvals is to ensure all electrical machinery being imported into the USA is safe to use.

Cables that are UL approved are marked with UL symbols so that electrical inspectors will know when a non-UL cable is being used.

Failure to comply with UL regulations can result with two outcomes: Either the machine will need to be re-wired in the United States, or the

machine will be sent back to New Zealand to be rewired with cables that comply. Both scenarios are very expensive.

LAPP work with the largest machine builders in the world. Our USA design team are always up to date with regulations to make sure products meet the latest regulations.

If you have any questions regarding UL requirements, please contact the ECS sales team on 0800 849 2211, or sales@ecsnz.com.

ÖLFLEX UL - Appliance Wire

APPLIANCE WIRE WITH UL APPROVALS - 1000V



#154



SEARCH ON EXPRESS.ECSNZ.COM



Conductor Size MM	0.5mm ²	0.75mm ²	1mm ²	1.5mm ²	2.5mm ²	4mm ²	6mm ²	10mm ²	16mm ²
Conductor Size AWG	22AWG	20AWG	18AWG	16AWG	14AWG	12AWG	10AWG	8AWG	6AWG
Earth	4160100	4160200	4160300	4160400	4160500	4160600	4160700	4160800	4160900
Black	4160101	4160201	4160301	4160401	4160501	4160601	4160701	4160801	4160901
Blue	4160102	4160202	4160302	4160402	4160502	4160602	4160702	4160802	4160902
Brown	4160103	4160203	4160303	4160403	4160503	4160603	4160703	4160803	4160903
Red	4160104	4160204	4160304	4160404	4160504	4160604	4160704	4160804	4160904
White	4160105	4160205	4160305	4160405	4160505	4160605	4160705	4160805	4160905
Grey	4160106	4160206	4160306	4160406	4160506	4160606	4160706	4160806	4160906
Purple	4160107	4160207	4160307	4160407	4160507	4160607	4160707		
Pink	4160108	4160208	4160308	4160408					
Orange	4160109	4160209	4160309	4160409	4160509	4160609	4160709	4160809	4160909
Yellow	4160110	4160210	4160310	4160410	4160510	4160610	4160710	4160810	4160910
Green	4160111	4160211	4160311	4160411	4160511	4160611	4160711	4160811	4160911
Dark Blue	4160114	4160214	4160314	4160414	4160514	4160614	4160714	4160814	4160914
Blue + White Stripe	4160126	4160226	4160326	4160426	4160526	4160626	4160726	4160826	
White + Blue Stripe	4160144	4160244	4160344	4160444	4160544	4160644	4160744	4160844	
Cable OD	2.5mm	2.7mm	2.9mm	3.1mm	3.7mm	4.4mm	4.9mm	6.8mm	8.9mm

ÖLFLEX UL - Control TM CY

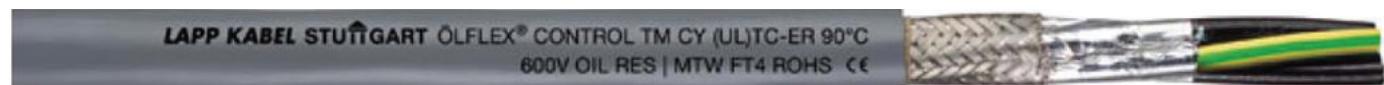
EMC SCREENED FLEX FOR DRIVES



#1333



SEARCH ON EXPRESS.ECSNZ.COM



Item No	Cores	Conductor	Description	OD
3 core (2 core + earth)				
281803CY	3	1mm	2 core + earth	8.1
281603CY	3	1.5mm	2 core + earth	8.8
4 core (3 core + earth)				
281804CY	4	1mm	3 core + earth	8.6
281604CY	4	1.5mm	3 core + earth	9.4
281404CY	4	2.5mm	3 core + earth	10.4
281204CY	4	4mm	3 core + earth	12.3
281004CY	4	6mm	3 core + earth	15.3
280804CY	4	10mm	3 core + earth	18.5
280604CY	4	16mm	3 core + earth	22.9

ÖLFLEX UL - 150 Series

MULTICORE FLEX WITH SMALL CONDUCTORS



#1331



SEARCH ON EXPRESS.ECSNZ.COM

**ÖLFLEX® 150 H05VV5-F ◀ USE ▷ ◀ HAR ▷ CE
鲁能 STYLE 2587 or 21098 CSA AWM IA/BII 600V FT1 90 °C**



Item No	Cores	Conductor	Description	OD
0.5mm / 21AWG Conductors				
15002	2	0.5mm	2 core (no earth)	5.9
15003	3	0.5mm	2 core + earth	6.2
15004	4	0.5mm	3 core + earth	6.8
15005	5	0.5mm	4 core + earth	7.4
15007	7	0.5mm	6 core + earth	9.1
15012	12	0.5mm	11 core + earth	11.1
15025	25	0.5mm	24 core + earth	16
0.75mm / 19AWG Conductors				
15102	2	0.75mm	2 core	6.3
15103	3	0.75mm	2 core + earth	6.7
15104	4	0.75mm	3 core + earth	7.2
15105	5	0.75mm	4 core + earth	8.1
15107	7	0.75mm	6 core + earth	9.9
15112	12	0.75mm	11 core + earth	12
15118	18	0.75mm	17 core + earth	14.4
15125	25	0.75mm	24 core + earth	17.5

ÖLFLEX UL - Control TM

MULTICORE FLEX WITH UL APPROVALS - 600V



#1331



SEARCH ON EXPRESS.ECSNZ.COM

ÖLFLEX® CONTROL TM-(UL) TYPE TC-ER 90°C 600V---CSA AWM FT4 RoHS



Item No	Cores	Conductor	Description	OD
1mm / 18AWG Conductors				
281803	3	1mm	2 core + earth	7.4
281804	4	1mm	3 core + earth	8
281805	5	1mm	4 core + earth	8.6
281807	7	1mm	6 core + earth	9.3
281812	12	1mm	11 core + earth	12
281818	18	1mm	17 core + earth	14.9
281825	25	1mm	24 core + earth	16.7
1.5mm / 16AWG Conductors				
281602	2	1.5mm	2 core	7.3
281603	3	1.5mm	2 core + earth	8.1
281604	4	1.5mm	3 core + earth	8.8
281605	5	1.5mm	4 core + earth	9.5
281607	7	1.5mm	6 core + earth	10.3
281612	12	1.5mm	11 core + earth	14.2
281618	18	1.5mm	17 core + earth	16.2
281625	25	1.5mm	24 core + earth	18.6
2.5mm / 14AWG Conductors				
281403	3	2.5mm	2 core + earth	9.1
281404	4	2.5mm	3 core + earth	9.8
281405	5	2.5mm	4 core + earth	10.7
4mm / 12 AWG Conductors				
281203	3	4mm	2 core + earth	10.6
281204	4	4mm	3 core + earth	11.5
281205	5	4mm	4 core + earth	12.6

ecs

UL CABLE

ÖLFLEX SOLAR XLR-E / (I+E)

E-BEAM CROSSLINKED EN 50618 SOLAR CABLE / NEW 62930 IEC 131 TYPE

#1750



SEARCH ON EXPRESS.ECSNZ.COM

LAPP KABEL STUTTGART ÖLFLEX® SOLAR XLR-E

CE

LAPP KABEL STUTTGART ÖLFLEX® SOLAR XLR-E T

CE

CAUTION: DC CABLE - DO NOT DISCONNECT UNDERLOAD

CE

Application Range

- » PV systems rated 1500VDC
- » Cabling between solar modules and as extension cable between module strings and DC/AC inverters
- » Gable and flat roof PV systems
- » PV parks and power plants
- » Not suitable for direct burial, Installation according to IEC 60364-5-52, respectively HD 60364-5-52

Construction

- » Fine-wire, tinned-copper conductor
- » Core insulation made of electron beam cross-linked copolymer
- » Colour of core insulation: white
- » Outer sheath made of electron beam cross-linked copolymer
- » Outer sheath colour: black respectively black with red stripe

Special Features

- » Halogen-free and flame-retardant
 - » Weather /UV-resistant acc. to EN 50618
 - » Ozone-resistant according to EN 50396
 - » XLR-E = X-Linked Radiated-EN Standard Proven electron beam cross-linked quality
- Test Voltage**
- » AC 6500 V
- Temperature Rating**
- » -40°C to 120°C

Nominal Voltage

- » AC U0/U: 1.0/1.0 kV DC U0/U: 1.5/1.5 kV

Norm references / Approvals

- » **XLR-E/I+E:** H1ZZZ2-K approved by TÜV acc. to EN 50618 / 62930 IEC conformity
- » **I+E:** EN 50618 / 62930 IEC 131 approved by TÜV acc. to IEC 62930

XLR-E	XLR-E I+E	Conductor Size (mm)	Outer Sheath Colour	Conductor Colours	OD (mm)	UoM	Drum Size (m)
Single Core							
1023652s	1023716s	1 x 4	Black	White	5.4	per/mtr	100
1023652	1023716	1 x 4	Black	White	5.4	Drum	500
1023653	1023717	1 x 6	Black	White	6.0	per/mtr	500
1023654	1023718	1 x 10	Black	White	7.2	per/mtr	500
Twin Core							
1023712S		2 x 4	Black	Red / Blue	12 x 5.2	per/mtr	100
1023712		2 x 4	Black	Red / Blue	12 x 5.2	Drum	500
1023713		2 x 6	Black	Red / Blue	12 x 5.8	per/mtr	500

ÖLFLEX SOLAR XLWP

FOR UNDERGROUND INSTALLATION, FLOATING PV, PLANTS, SOLAR PARKS & DIRECT BURIAL

#1942



LAPP KABEL STUTTGART ÖLFLEX® SOLAR XLWP

CE

Application Range

- » For floating PV/ canal top installations where cables are in contact with water or exposed to high humidity (see data sheet for more details)
- » For underground installation, for example in conduits which water, heat, and moisture may accumulate in
- » Suitable for direct burial: see data sheet
- » In September 2018 and based on AD8 watertightness, this product was recommended by Solartechnik Bayern for installation in ground typically realized via underground circuits for PV applications, whereas underground sand beds are not required to channel off water anymore, thanks to this cable's AD8 grade

Benefits

- » The alternative for long-term storage in water, e.g. as it can occur in case after flooding or in buried conduits
- » Reduction of flame propagation and of toxic combustion gases in the event of fire
- » Robust against mechanical impacts
- » Extruded colour stripe serves as reverse polarity protection during installation.
- » Exact quantity control during installation by meter marking on the cable sheath

Special Features

- » Weather/UV-resistant acc. to EN 50618, appendix E
- » Ozone-resistant according to EN 50396
- » Halogen-free and flame-retardant
- » Good notch and abrasion resistance
- » XLWP = X-Linked + Water-Proof (Permanent water contact AD8 acc. to IEC 60364-5-51),
- » Proven electron beam cross-linked quality

Temperature Rating

- » -40°C to 120°C

Test Voltage

- » AC 6500 V

Norm references / Approvals

- » H1ZZZ2-K (type according to EN 50618)
- » Items with other cross-sections on request

Item No	Cores	Conductor (mm)	Conductor Colours	OD (mm)	Drum Size (m)
1023601	1	4	White/Black	5.8	500
1023602	1	6	White/Black	6.8	500
1023603	1	10	White/Black	7.6	500

ÖLFLEX SOLAR XLS Earth

EARTH CABLE WITH UV RESISTANT SHEATH FOR EXPOSED APPLICATIONS

#1750



LAPP KABEL STUTTGART ÖLFLEX® SOLAR GN/YE

CE

Construction

Flexible Class 5 fine wire stranding, copolymer insulation, tinned copper conductor. This Solar Cable is a variation on our standard Solar range, a traditional fine stranded earth cable wrapped in a special black solar sheath. This is the only truly UV resistant earth cable on the market.

Temperature Rating

- » -40°C to 120°C

Minimum Bending Radius

- » Fixed installation:
4 x outer diameter

Test Voltage

- » AC 6,500V

Special Features

- » Designed for long outdoor lifespan
- » Small Cable OD
- » Excellent weather and UV resistance
- » Metre marked on sheath

Item No	Cores	Conductor	Conductor Colours	OD (mm)	Drum Size (m)
0025814S	1	4mm	Earth	6	100
0025823S	1	6mm	Earth	7.1	100

PV BALANCE OF SYSTEMS

Explore Our Range of Quality AS/NZS Compliant PV eBOS Products Online.

<https://express.ecsnz.com/solar> | For all the latest technologies, pricing, stock check and online ordering.

Multi Contact (MC4) Solar Connector

THE LARGEST SELLING SOLAR CONNECTOR IN THE WORLD MC4

Multi-Contact



#1558



SEARCH ON EXPRESS.ECSNZ.COM



Item No	Type	Conductor Size (mm)	Cable OD (mm)
Female Sockets			
MC-320014	Female	4 & 6	3-6
MC-320016	Female	4 & 6	5.5-9
Male Plugs			
MC-320015	Male	4 & 6	3-6
MC-320017	Male	4 & 6	5.5-9
Y Branch Connectors			
MC-320018	1 x Male to 2 x Female		
MC-320019	2 x Male to 1 x Female		
Panel Mount Receptacles			
32.0078P0001	Female Panel-mount	4 & 6	
32.0079P0001	Male Panel-mount	4 & 6	

Noark DC MCBs

NON-POLARISED DC, K TYPE FOR PV SYSTEMS

#1559



SEARCH ON EXPRESS.ECSNZ.COM

Application

DC miniature circuit breakers Ex9BP are designed for direct current applications. Thanks to their polarity independency they are suitable for PV applications.

Features

- » Non-polarized, suitable for PV
- » K type tripping
- » 1 to 4 modules

Standards

- » Tested according to IEC / EN 60947-2

Working Temperature

- » -35~+70

Item No	Poles	Current Rating (A)
360V		
PV-N84449	N2P	10A
PV-N84450	N2P	16A
PV-N84451	N2P	20A
PV-N84452	N2P	25A
PV-N84453	N2P	32A
PV-N84454	N2P	40A
PV-N84455	N2P	50A
PV-N84456	N2P	63a
720v		
PV-N84475	N4P	10A
PV-N84476	N4P	16A
PV-N84477	N4P	20A
PV-N84478	N4P	25A
PV-N84479	N4P	32A
PV-N84480	N4P	40A
PV-N84481	N4P	50A
PV-N84482	N4P	63A



Marley Heavy Duty uPVC Solar Conduit

FOR SOLAR POWER INSTALLATIONS



#1561



SEARCH ON EXPRESS.ECSNZ.COM

Application

Our flexible solar conduit is designed specifically for long term outdoor applications. Flexible conduit is very popular leading into the DC isolators, or when bending rigid conduit is not really an option.

Features

- » Conforms with AS/NZS 2053:5
- » Meets the requirements of AS/NZS 5033:2012
- » Best Environmental Practice Certified
- » Compatible with a full range of Marley uPVC fittings
- » Proudly New Zealand Made and 100% Recyclable

Product Number	Description	Diameter (mm)	Length (m)
Rigid			
PV-Rigid-25-4m	Grey Heavy Duty uPVC SOLAR Rigid Conduit - Comes with Solar Markings	25	4
PV-Rigid-32-4m	Grey Heavy Duty uPVC SOLAR Rigid Conduit - Comes with Solar Markings	32	4
PV-CON-SC250C	Marley PVC Cement for Conduit (250ml)		
Flexible			
PV-Flex-25-50m	Grey Heavy Duty uPVC SOLAR Corrugated Conduit - Comes with Solar Markings	25	50
PV-Flex-32-25m	Grey Heavy Duty uPVC SOLAR Corrugated Conduit - Comes with Solar Markings	32	25



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UNITRONIC LiYY

FLEXIBLE FLAME RETARDANT DATA CABLE

#222



SEARCH ON EXPRESS.ECSNZ.COM

DATA CABLE

eCS

UNITRONIC LiYY

SCREENED DATA CABLE

#222



SEARCH ON EXPRESS.ECSNZ.COM

LAPP KABEL STUTTGART UNITRONIC® LiYY

Construction

- » Fine wire stranded conductors
- » PVC inner insulation material
- » PVC outer sheath

Minimum Bending Radius

- » Flexing: 10 x cable OD
- » Fixed: 4 x cable OD

Temperature Rating

- » Flexing: -5°C to 70°C
- » Fixed: -40°C to 80°C

Item No

Cores

Conductor

OD (mm)

0.25mm

0028302	2	0.25mm	3.8
0028304	4	0.25mm	4.3
0028308	8	0.25mm	6.2

0.5mm

0028502	2	0.5mm	4.7
0028504	4	0.5mm	5.6
0028508	8	0.5mm	8

UNITRONIC LiYCY

SCREENED DATA CABLE

#222



LAPP KABEL UNITRONIC® - LiYCY

Construction

Fine wire stranded conductors, PVC inner insulation material and grey PVC outer sheath. Tinned copper braid screen with high coverage.

Minimum Bending Radius

- » 15 x cable OD
- » 6 x cable OD

Temperature Rating

- » -40 to 80
- » -5 to 70

Nominal Voltage

- » 250V (not for single or three phase power)

Item No

Core

Conductor

OD

Item No

Core

Conductor

OD

0.25mm Conductors

34402	2	0.25mm	4.5
34403	3	0.25mm	4.7
34404	4	0.25mm	5
34405	5	0.25mm	5.6
34407	7	0.25mm	6
34410	10	0.25mm	7.5
34412	12	0.25mm	7.7
34418	18	0.25mm	8.8
34420	20	0.25mm	9.3
34425	25	0.25mm	10.7
34430	30	0.25mm	11
34436	36	0.25mm	11.8
34440	40	0.25mm	12.7

0.5mm Conductors

34602	2	0.5mm	5.6
34603	3	0.5mm	5.9
34604	4	0.5mm	6.3
34605	5	0.5mm	7
34607	7	0.5mm	7.6
34610	10	0.5mm	9.3

0.75mm Conductors

34702	2	0.75mm	6
34703	3	0.75mm	6.3

UNITRONIC LiYCY TP

SCREENED DATA CABLE WITH TWISTED PAIRS

#223



SEARCH ON EXPRESS.ECSNZ.COM

LAPP KABEL STUTTGART UNITRONIC® LiYCY (TP)

Construction

Fine wire stranded conductors, PVC inner insulation material and grey PVC outer sheath. Tinned copper braid screen with high coverage.

Minimum Bending Radius

- » 15 x cable OD

Temperature Rating

- » -40 to 80

Nominal Voltage

- » 250V (not for single or three phase power)

Item No

Core

Pairs

Conductor

OD

0.25mm Conductors

35800	4	2	0.25mm	7
35801	6	3	0.25mm	7.1
35802	8	4	0.25mm	7.6
35803	12	6	0.25mm	8.5
35804	16	8	0.25mm	10.3

0.5mm Conductors

35810	4	2	0.5mm	8.6
35811	6	3	0.5mm	8.7
35812	8	4	0.5mm	9.4
35813	12	6	0.5mm	11.1
35814	16	8	0.5mm	13.1

UNITRONIC ST - Single Pair

FOIL SCREEN FOR BMS HVAC (2 CORE)



#224



SEARCH ON EXPRESS.ECSNZ.COM

LAPP KABEL UNITRONIC® ST 1x2x22AWG/7 <3800764>

Construction

Fine wire stranded tinned conductors, PE polyethylene inner insulation material and grey PVC outer sheath. Aluminum foil screen with tinned copper drain wire

Minimum Bending Radius

» Fixed: 10 x cable OD

Temperature Rating

» -30 to 60

Nominal Voltage

» 300V (not for single or three phase power)

Item No	Type	Pairs	Conductor	Conductor Colours	Cable OD	Drum Size
3804580		1 Pair	24 awg / ~0.25mm ²	Black / White	4.8	500m
3800764	8761	1 Pair	22 awg / ~0.34mm ²	Black / White	4.5	305m
3802854	8762	1 Pair	20 awg / ~0.5mm ²	Black / White	5.2	500m
33002	8760	1 Pair	18 awg / ~1.0mm ²	Black / White	5.6	305m
3804581		1 Pair	16 awg / ~1.5mm ²	Black / White	6.7	500m / 1000m

UNITRONIC ST - Triple

FOIL SCREEN FOR RTD'S (3 CORE)



#225



LAPP KABEL STUTTGART UNITRONIC® ST 3x18AWG

Construction

Fine wire stranded tinned conductors, FPE inner insulation material and gun metal grey PVC outer sheath. Aluminum foil screen with tinned copper drain wire.

Minimum Bending Radius

» Fixed: 10 x cable OD

Temperature Rating

» -30 to 80

Nominal Voltage

» 300V (not for single or three phase power)

Black Sheath Option

» UV Resistant suitable for outdoor use

Item No	Type	Pairs	Conductor	Conductor Colours	Cable OD	Sheath
3804951	B5401FE	1 Triple	20 awg / ~0.5mm ²	Black / Natural / Red	5.5	Cream
3804931	B5301FE	1 Triple	18 awg / ~1.0mm ²	Black / Natural / Red	6.2	Cream
3802398	B5301FE	1 Triple	18 awg / ~1.0mm ²	Black / Natural / Red	6.2	Black

UNITRONIC ST - 2 Pair

FOIL SCREEN FOR RTD'S (4 CORE)



#225



LAPP KABEL STUTTGART UNITRONIC® ST 20276

Construction

» Multi-wire tinned stranded copper conductor
» Core insulation made of polyethylene (PE)
» Plastic-laminated aluminium foil with tinned copper drain wire
» Outer sheath made of PVC, Colour of the outer sheath: Similar to Silver-grey/ RAL 7001

Benefits

» Pair screening, offers optimum protection against external interference at medium and high frequencies
» Twisted cores and individual pair shielding ensures high Near End Cross Talk attenuation
» Flame retardant in acc. to IEC 60332-1-2

Temperature Rating

» -20 to +60

Minimum Bending Radius

» Fixed: 10 x cable OD

Item No	Type	Pairs	Conductor	Conductor Colours	Cable OD	Sheath
3800952	20276	2 Pair	22 awg / ~0.5mm ²	Black/Red & White/Green	4.3	Chrome Grey

UNITRONIC ST - Serial RS485

FOR SERIAL RS485 COMMUNICATIONS - MODBUS



#226



LAPP KABEL STUTTGART UNITRONIC® ST 1x2x24AWG

Construction

Fine wire stranded tinned conductors, FPE inner insulation material and gun metal grey PVC outer sheath. Aluminum foil screen with tinned copper drain wire.

Impedance

» 120 Ohm

Applications

» RS485

Nominal Voltage

» 30V

Item No	Type	Pairs	Conductor	Conductor Colours	Cable OD	Drum Size
3800765	9841	1 Pair	24 awg / ~0.25mm ²	Bu/Wh & Wh/Bu	5.9	305m
3800953	9842	2 Pair	24 awg / ~0.25mm ²	Bu/Wh & Wh/Bu + Og/Wh & Wh/Og	8.8	305m

Instrumentation Cable RE-Y(ST)Y

OVERALL SCREENED INSTRUMENTATION CABLE 500V

#228



SEARCH ON EXPRESS.ECSNZ.COM

LAPP KABEL STUTTGART ÖLFLEX® INSTRUM RE-Y(ST)Y

Construction

Stranded conductors, PVC inner insulation material and black UV resistant PVC outer sheath. Aluminium foil screen with tinned copper drain wire.

Minimum Bending Radius

» Fixed: 6 x cable OD

Temperature Rating

» Fixed: -30°C to 105°C

Nominal Voltage

» 500V

DATA CABLE

eCS

Item No	Type	Pairs	Colours	OD (mm)
0.5mm				
1270800	B5001 CS	1 Pair	Black/White	6.8
1271250	B5301 CS	1 Triple	Black/White/Red	7.2
1270802	B5002 CS	2 Pair	Black/White	7.7
1270804	B5004 CS	4 Pair	Black/White	12
1270806	B5006 CS	6 Pair	Black/White	13.7
1270808	B5008 CS	8 Pair	Black/White	15.2
1270812	B5012CS	12 Pair	Black/White	17.9
1.5mm				
1270950	B5102 ES	1 Pair	Black/White	8.2
1271300	B5103 ES	1 Triple	Black/White/Red	9.0
1270952	B5502 CS	2 Pair	Black/White	12.6
12709578	B5012 CS	3 Pair	Black/White	13.2
1270954	B5504 CS	4 Pair	Black/White	15.2
1270956	B5506 CS	6 Pair	Black/White	17.4
1270962	B5512 CS	12 Pair	Black/White	23.1

INSTRUMENTATION CABLE RE-Y(ST)Y PiMF

INDIVIDUAL AND OVERALL SCREENED INSTRUMENTATION CABLE 500V

#228



SEARCH ON EXPRESS.ECSNZ.COM

RE-2Y(ST)Yv PiMF

Construction

Stranded conductors, PVC inner insulation material and black UV resistant PVC outer sheath. Tinned copper drain wire, individually and collectively screened pairs with aluminium polyester tape.

Impedance

» Flexing: 6 x cable OD

Applications

» Fixed: -30°C to 105°C

Nominal Voltage

» 500V

Item No	Pairs	Colours	OD (mm)
0.5mm			
1271050	2	Black/White	10.8
1271052	4	Black/White	12.4
1271054	6	Black/White	14.7
1271056	8	Black/White	16.7
1271060	12	Black/White	19.5
1.5mm			
1271160	2	Black/White	13.5
1271162	4	Black/White	15.8
1271164	6	Black/White	18.9
1271166	8	Black/White	21.4
1271170	12	Black/White	25.1

INSTRUMENTATION CABLE RE-Y(ST)YRY SWA

ARMOURED AND OVERALL SCREENED INSTRUMENTATION CABLE 500V

#228



SEARCH ON EXPRESS.ECSNZ.COM

LAPP KABEL STUTTGART ÖLFLEX® INSTRUM RE-Y(ST)YRY

Construction

Stranded conductors, galvanised steel wire armoured, PVC inner insulation material and black UV resistant PVC outer sheath. Tinned copper drain wire, collectively screened pairs with aluminium polyester tape.

Impedance

» Flexing: 10 x cable OD

Applications

» Fixed: -30°C to 105°C

Nominal Voltage

» 500V

Item No	Pairs	Colours	OD (mm)
1.5mm			
1271500	1	Black/White	12.9
1271502	2	Black/White	17.6
1271504	4	Black/White	20
1271506	6	Black/White	23.7
1271508	8	Black/White	26.2
1271510	10	Black/White	29



LAPP KABEL UNITRONIC® ST 2x2x24AWG/7 <3800950>

Construction

Fine wire stranded tinned conductors, FPE inner insulation material and gun metal grey PVC outer sheath. Aluminum foil screen with tinned copper drain wire.

Impedance

- » 100 Ohm

Applications

- » RS232
- » RS422

Nominal

- » 30V

Item No	Type	Pairs	Conductor	Cable OD	Drum Size
3800950	B1419A	2 Pair	24 awg / ~0.25mm ²	6.3	305m
3800951	B1421A	4 Pair	24 awg / ~0.25mm ²	7.1	305m
3804947	B1424A	12 Pair + 1 Core	24 awg / ~0.25mm ²	10.6	305m

UNITRONIC BUS EIB / KNX

FOR COMMUNICATION IN BUILDING MANAGEMENT



LAPP KABEL STUTTGART UNITRONIC® BUS EIB

Minimum bending radius

- » Fixed installation: 5 x outer diameter

Benefits

Can be laid on or under plaster; in pipes, cable ducts; in dry, damp or wet environments.

Application Range

Decentralised control of lighting, heating, air-conditioning, ventilation, energy management, blinds, time management, locking systems etc.

Temperature Range

- » -30 to +70

Item No	Type	Strands/Conductor	Cores & Size	OD
2170240	BUS EIB / KNX	1	2 x 2 x 0.8	6.6

Valve Cable

VALVE CABLE USED IN DAIRY FACTORY INSTALLATIONS



LAPP KABEL - VALVE FLEX

Construction

Tinned Fine wire stranded conductors, PVC inner insulation material and black UV resistant PVC outer sheath.

Minimum Bending Radius

- » Fixed: 6 x cable OD

Temperature Rating

- » -20 to 70

Features

- » Tinned Conductors
- » Black UV Resistant Sheath
- » Meets new colour coding standard for valves

Item No	Cores	Conductor	Sheath Rating	Conductor Colours	OD
0.25mm Conductors					
3805717	6	0.25	24V	Brown, Blue, Grey, White, Red, Black	5.1mm
0.5mm Conductors					
3805718	6	0.5	500V	Brown, Blue, Grey, White, Red, Black	6.9mm
3805719	9	0.5	500V	Brown, Blue, Grey, White, Red, Black, Pink, Orange	9.1mm





UNITRONIC Profibus

FOR SIEMENS PLC COMMUNICATION NETWORKS

#236



SEARCH ON EXPRESS.ECSNZ.COM

LAPP KABEL STUTTGART UNITRONIC® BUS L2/FIP ROBUST

Item No	Type	No. of cores and Ø of conductor	OD	Sheath Type
Static				
2170220	Solid Conductor	1 x 2 x 0.64 mm Ø (~0.34mm ²)	8	PVC - Purple
Dragchain - Ultra Flexible				
2170222	Stranded Conductors	1 x 2 x 0.64 mm Ø (~0.34mm ²)	8	PUR - Purple

EPIC Profibus Connectors

FOR SIEMENS PLC COMMUNICATION NETWORKS

#273



SEARCH ON EXPRESS.ECSNZ.COM

Item No	Style	Connector	Terminator Switch
Standard			
21700502	90°	Fast Connect	Yes
21700544	180° / Straight	Fast Connect	Yes
21700504	90°	Screw	Yes
21700505	180° / Straight	Screw	Yes
21700507	35°	Screw	Yes
With additional programming port			
21700501	90°	Fast Connect	Yes
21700503	90°	Screw	Yes
21700506	35°	Screw	Yes



21700504

HIGHLY REQUESTED



21700505

HIGHLY REQUESTED

UNITRONIC DeviceNet

FOR ALLEN BRADLEY PLC COMMUNICATION NETWORKS

#237



SEARCH ON EXPRESS.ECSNZ.COM

UNITRONIC® BUS DeviceNet TRUNK Cable

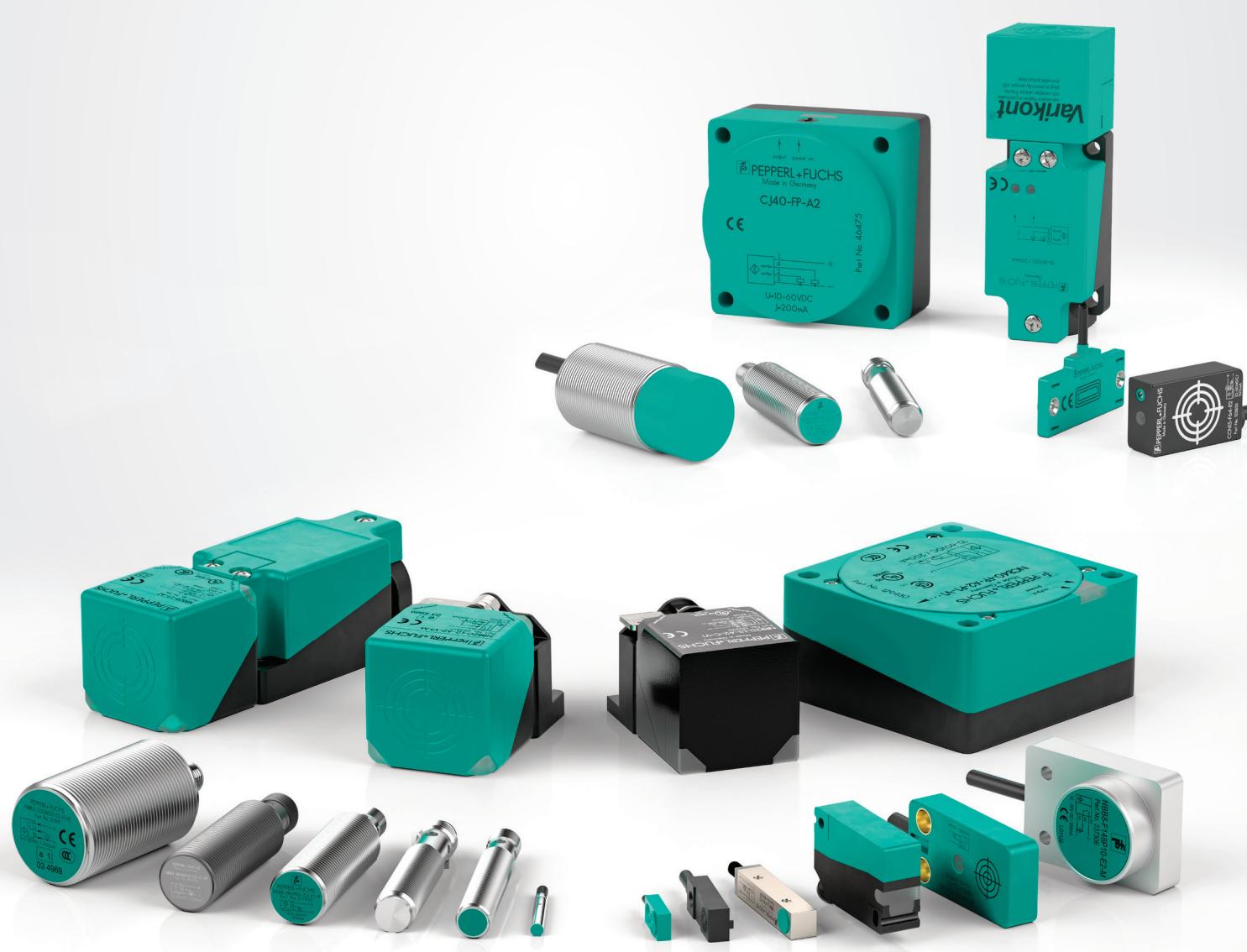
UNITRONIC® BUS DeviceNet DROP Cable

Item No	Type	No. of cores and AWG per conductor	OD	Sheath Type
Static				
3801234	THICK (TRUNK) / 3082A	1x2xAWG18 + 1x2xAWG15	12	PVC - Grey
3801235	THIN (DROP) / 3084A	1x2xAWG24 + 1x2xAWG22	7.1	PVC - Grey
Dragchain - Ultra Flexible				
2170344	THICK (TRUNK) / 3082A	1x2xAWG18 + 1x2xAWG15	12.2	PUR - Purple
2170345	THIN (DROP) / 3084A	1x2xAWG24 + 1x2xAWG22	6.9	PUR - Purple

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UNITRONIC M8 Field Wireable Connectors

SCREW TERMINAL SERIES

#141



SEARCH ON EXPRESS.ECSNZ.COM

Terminal	Male	Female
3 Pole		
Screw	22260120	22260125
4 Pole		
Screw	22260121	22260126



3 Pole

4 Pole

UNITRONIC M8 Connectors With Leads

PUR BLACK CABLE - DRAGCHAIN RATED - INCLUDES MARKER SLEEVES

#142



SEARCH ON EXPRESS.ECSNZ.COM

Lead Length	Male / Plug	Female / Socket	Female / Socket
	Straight	Straight	Right Angle
3 Pole			
2m	22260204	22260202	22260203
5m	22260205	22260200	22260201
10m	22260218	22260219	22260220
4 Pole			
2m	22260300	22260309	22260311
5m	22260308	22260310	22260312
10m	22260318	22260317	22260319



UNITRONIC M8 Panel Mount

PANEL MOUNTS FOR CABINETS

#143



SEARCH ON EXPRESS.ECSNZ.COM

	Male	Female	Thread	Suitable Locknut
3 Pole	22260100	22260102	M8	LUM-RSKF-8
4 Pole	22260101	22260103	M8	LUM-RSKF-8



UNITRONIC M12 Field Wireable Connectors

QUICK CONNECT SERIES

#138



SEARCH ON EXPRESS.ECSNZ.COM

Description	Max Cable	Male	Female	Cable Joiner
4 Pole	8mm	22260134	22260133	22260983



UNITRONIC M12 Field Wireable Connectors

SCREW TERMINAL SERIES

#138



SEARCH ON EXPRESS.ECSNZ.COM



	A Coded Male	B Coded Male	D Coded Male	Male / Plug			Female / Socket				
				Poles	Key Coding	Shielded	Cable OD	Straight	Right Angle	Straight	Right Angle
Standard	4 Pole	A					8mm	RSC-4/9	RSCW-4/9	RKC-4/9	RKCW-4/9
	4 Pole	A					6mm	22260649	22260647	22260640	22260636
	5 Pole	A					6mm	22260129	22260130	22260127	22260128
Shielded	5 Pole	A	Shielded				6mm	22260652		22260645	
	8 Pole	A	Shielded				8mm	22260135		22260136	
	8 Pole	A	Shielded				8mm	22260825		22260826	
Fieldbus	4 Pole	D / Ethernet	Shielded				8mm	22260820		22261016	
	5 Pole	B / Profibus	Shielded				8.5mm	22260653		22260646	

UNITRONIC M12 Connectors With Leads

PUR OR PVC BLACK CABLE - DRAGCHAIN RATED - INCLUDES MARKER SLEEVES

#139



SEARCH ON EXPRESS.ECSNZ.COM



Lead Length	Male / Plug Straight PUR	Male / Plug Right Angle PUR	Female / Socket Straight PUR	Female / Socket Straight PVC	Female / Socket Right Angle PUR	Female / Socket Right Angle PVC
4 Pole						
2m	22260320	22260301	22260322	22260688	22260324	22260841
5m	22260321	22260302	22260323	22260689	22260325	22260678
10m	22260342	22260303	22260343	22260685	22260341	22260683
5 Pole						
2m	22260400	22260402	22260404		22260406	
5m	22260401	22260403	22260405		22260407	
10m	22260414	22260417	22260415		22260418	
8 Pole						
2m	22260091	22260094	22260726		22260141	
5m	22260092	22260095	22260728		22260615	
10m	22260093	22260096	22260729		22260616	

UNITRONIC M12 Panel Mount

PANEL MOUNTS FOR CABINETS

#140



SEARCH ON EXPRESS.ECSNZ.COM

Thread	Male	Female	Suitable Locknut
4 Pole			
M16	22260108	22260107	52103010
PG9	22260113	22260114	52003500
5 Pole			
M16	22260106	22260105	52103010
PG9	22260112	22260111	52003500
8 Pole			
M16	22260631	22260628	52103010



UNITRONIC Sensor Distribution Boxes

DISTRIBUTION BOXES AVAILABLE WITH M8 OR M12 CONNECTORS

#1364 / #1365



SEARCH ON EXPRESS.ECSNZ.COM

- | | |
|--------------------------------------|------------------------|
| Passive (Conventional Wiring) | Active Fieldbus |
| » 4 or 8 Slot x M12 | » Profibus |
| » 4 or 8 Slot x M8 | » DeviceNet |
| | » AS-I |



Item No	Description	Type	Thread
Sensor Blocks (#1364)			
22260031	Sensor Block M8 with 8 slots and LED indication	10m	M8
22260036	Sensor Block M8 with 8 slots and LED indication	Terminal Bock	M8
22260002	Sensor Block M12 with 4 slots and LED indication		M12
Covers (#1365)			
ZVKM	Sealing Cap for M8 Female Connectors	Female	M8
ZVK	Sealing Cap for M12 Female Connectors	Female	M12
0909-UAC-101B	Sealing Cap for M12 Male Connectors	Male	M12

UNITRONIC Sensor Cable

CABLE FOR EXTENDING LEADS OR WIRING M8 AND M12 CONNECTORS

#1370



SEARCH ON EXPRESS.ECSNZ.COM

LAPP KABEL STUTTGART UNITRONIC® SENSOR

Item No	Conductors	1	2	3	4	5	6	7	8
Item No	Size								
UNSCREENED									
7038864	3 x 0.34	brown	blue	black					
7038865	4 x 0.34	brown	white	blue	black				
7038893	5 x 0.34	brown	white	blue	black	grey			
7038868	8 x 0.25	white	brown	green	yellow	grey	pink	blue	red
SCREENED									
7038886	4 x 0.34	brown	white	blue	black				



ETHERLINE RJ45 Connectors

FOR ETHERNET NETWORKS IN FACTORY INSTALLATIONS

#48



SEARCH ON EXPRESS.ECSNZ.COM

FIELD MOUNTABLE

21700600

- » No Tools Required
- » 4 Pair: Standard T568A
- » Solid Wire: 24 to 22AWG
- » 7 Stranded: 27 to 22AWG
- » Cable OD: 5-9mm



PROFINET COLOUR CODING

21700651

- » 2 Pair: Profinet YE, OG, BU, WH
- » Solid Wire: 24 to 22AWG
- » 7 Stranded: 27 to 22AWG
- » Cable OD: 5.5-10mm
- » Gland included



UNSHIELDED

ECS-P129

- » Un Shielded
- » Standard RJ45 crimp tool required
- » 4 Pair / Cat5e
- » 7 Stranded: 26 to 24AWG



FOR FD CABLES

21700639

- » Quick Termination / No Tools Required
- » 4 Pair: Standard T568A
- » 90 Degree cable exit
- » 4 Way Mountable
- » For FD Dragchain Cables
- » Solid Wire: 26 to 24AWG
- » 7 Stranded: 27 to 24AWG
- » 19 Stranded: 26AWG
- » Cable OD: 5-10mm



SNAG COVERS

Features

- » For use with ECS-P129 and ECS-P129s
- » Cable OD: 5-6mm
- » Available in Green, Blue, White, Black and Red



MALE D CODED

22260820

- » Quick Termination / No Tools Required
- » 2 Pair: D Coded
- » IP67
- » Solid Wire: 26 to 22AWG
- » 7 Stranded: 26 to 22AWG
- » Cable OD: 4-8mm



ETHERNET CABLE JOINER

21700623

- » For Joining Ethernet Cables
- » Quick Termination / No Tools Required
- » Suitable for speeds up to CAT7A
- » 4 Pair
- » IP67
- » Solid Wire: 24 to 22AWG
- » 7 Stranded: 24 to 22AWG
- » Cable OD: 5-10mm



FOR FD CABLES

21700615

- » No Tools Required
- » 4 pair: standard t568a
- » For FD dragchain cables
- » Solid Wire: 26 to 24awg
- » 7 Stranded: 27 to 24awg
- » 19 Stranded: 26awg
- » Cable OD: 5-9mm



FIELD MOUNTABL

21700652e

- » 4 Pair: Standard T568A
- » Solid Wire: 24 to 22AWG
- » 7 Stranded: 27 to 22AWG
- » Cable OD: 5.5-10mm
- » Gland included



SHIELDED

ECS-P129s

- » Shielded
- » Standard RJ45 crimp tool required
- » 4 Pair / Cat5e
- » 7 Stranded: 26 to 24AWG



FOR STANDARD CABLES

21700636

- » Quick Termination / No Tools Required
- » 4 Pair: Standard T568A
- » 90 Degree cable exit
- » 4 Way Mountable
- » Solid Wire: 24 to 22AWG
- » 7 Stranded: 27 to 22AWG
- » Cable OD: 5-10mm



RJ45 JACK W/ COVER

SCH-RRJ_RJ45_WC

- » Standard 22mm hole size
- » Dust cap
- » Locknut included
- » 2 x RJ45 sockets



FEMALE D CODED

22261016

- » Quick Termination / No Tools Required
- » 2 Pair: D Coded
- » IP67
- » Solid Wire: 26 to 22AWG
- » 7 Stranded: 26 to 22AWG
- » Cable OD: 4-8mm



CAT6A SHIELDED JOINER

ECS-P129s-Joiner

- » For Joining Ethernet Patch Cables
- » Suitable for speeds up to CAT6A
- » 4 Pair
- » IP67
- » Solid Wire: 24 to 22AWG
- » 7 Stranded: 24 to 22AWG
- » Cable OD: 5-10mm



PROFINET COLOUR CODING

21700605

- » No Tools Required
- » 2 Pair: Profinet YE/OG/BU/WH
- » Solid Wire: 24 to 22AWG
- » 7 Stranded: 27 to 22AWG
- » Cable OD: 5-9mm



FOR FD CABLES

21700654

- » 4 Pair: Standard T568A
- » For FD Dragchain Cables
- » Solid Wire: 26 to 24AWG
- » 7 Stranded: 27 to 24AWG
- » 19 Stranded: 26AWG
- » Cable OD: 5.5-10mm
- » Gland included



RJ45 CAT.6A COUPLER - 21700611

Features

- Available with colour code T568A (21700611) or T568B (21700612). Qualified for 10 Gigabit/s Ethernet, metal housing suitable for industrial applications.
- Installation without tools
- RJ45 suitable for Cat.6A



DIN RAIL ETHERNET SOCKET

21700613

- » Fully Enclosed
- » Cover flap when socket not in use
- » Ideal for Ethernet Patch cables in Switchboards
- » Bring main cable in, then run a short patch cable
- » Suitable for speeds up to CAT6A
- » Solid Wire: 26 to 22AWG
- » 7 Stranded: 27 to 22AWG



FIELD MOUNTABLE

21700540

- » Quick Termination / No Tools Required
- » 4 Pair: Standard T568A
- » Suitable for speeds up to CAT5e
- » Solid Wire: 26 to 23AWG
- » 7 Stranded: 26 to 24AWG



EPIC SENSOR M12-M12 5-POLE

22262020

- » M12 control cabinet feed-through
- » CANopen/Devicenet applications
- » For sensor/actuator cabling
- » 5-pin
- » A-coded
- » Screened



Ethernet CAT 5E

ETHERNET CABLE CATEGORY 5E, CLASS D FOR FIXED INSTALLATION

2010



SEARCH ON EXPRESS.ECSNZ.COM

Item No	Type	Number of pairs	OD (mm)	Sheath Type	EXPRESS Category ID
3803513	LAPP KABEL UNITRONIC LAN CAT5e - UTP	4 x 2 x AWG 24/1	5.1	PVC	#46
2170280	ETHERLINE H CAT.5e	2 x 2 x AWG 24/1	5.6	LSZH	#2010
2170296	ETHERLINE H CAT.5e	4 x 2 x AWG 24/1	6.1	LSZH	#2010
2170891	LAPP KABEL STUTTGART ETHERLINE® PN Cat.5e Y 2x2xAWG22/1	2 x 2 x AWG 22	6.3	PVC	#2010
2170905	ETHERLINE FIRE Cat.5e PH120	4 x 2 x AWG 23/1	8.6	FRNC	#2014

UNITRONIC® LAN 250 UTP Cat.6

DATA COMMUNICATION SYSTEMS FOR ETHERNET TECHNOLOGY

#46



SEARCH ON EXPRESS.ECSNZ.COM

Item No	Type	Number of pairs	OD (mm)	Sheath Type	EXPRESS Category ID
3801501K	LAPP KABEL STUTTGART UNITRONIC® LAN 250 UTP CAT.6	4 x 2 x AWG 23	6.4	PVC	#46

ETHERLINE® FIRE CAT.6

INDUSTRIAL ETHERNET CABLE WITH INSULATION INTEGRITY

#2014



SEARCH ON EXPRESS.ECSNZ.COM

Item No	Type	Number of pairs	OD (mm)	Sheath Type	EXPRESS Category ID
2170913	LAPP KABEL STUTTGART ETHERLINE® FIRE Cat.6 PH120 4x2xAWG22/1	4 x 2 x AWG 22/1	10.2	FRNC	#2014

ETHERLINE® LAN 500 Cat.6A

ETHERNET CABLE FOR CATEGORY 6 A / CLASS E A -VERIFIED UP TO 500 MHZ

#2023



SEARCH ON EXPRESS.ECSNZ.COM

Item No	Type	Number of pairs	OD (mm)	Sheath Type	EXPRESS Category ID
2170960	LAPP KABEL STUTTGART ETHERLINE® LAN 500 S/FTP Cat.6A	4 x 2 x AWG 23/1	7.3	PVC	#2023
2170962	LAPP KABEL STUTTGART ETHERLINE® LAN 500 F/FTP Cat.6A	4 x 2 x AWG 23/1	7.3	LSZH	#2023

ETHERLINE® PN Cat.7

ETHERNET CABLE CATEGORY 7, CLASS F FOR FIXED INSTALLATION, VERIFIED UP TO 600 MHZ

#2010



SEARCH ON EXPRESS.ECSNZ.COM

Item No	Type	Number of pairs	OD (mm)	Sheath Type	EXPRESS Category ID
2170605	LAPP KABEL STUTTGART ETHERLINE® PN Cat.7 4x2xAWG23/1	2 x 4 x AWG 23/1	8.1	PVC	#2010
2170606	ETHERLINE PN CAT.7 FRNC A	2 x 4 x AWG 23/1	8.1	LSZH	#2010
2170607	ETHERLINE PN CAT.7 P A	2 x 4 x AWG 23/1	8.1	PUR	#2010

UNITRONIC® LAN Cat.7 OUTDOOR

ETHERNET CABLE FOR CATEGORY 7/CLASS F, VERIFIED UP TO 1000 MHZ, FOR OUTDOOR APPLICATIONS

#2023



SEARCH ON EXPRESS.ECSNZ.COM

Item No	Type	Number of pairs	OD (mm)	Sheath Type	EXPRESS Category ID
2170977	LAPP KABEL STUTTGART ETHERLINE® LAN 1000 S/FTP Cat.7 PE	4 x 2 x AWG 23/1 (L)PE	9.6	(L)PE	#2023



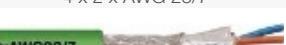
STRANDED CONDUCTORS FOR FLEXIBLE APPLICATIONS

Ethernet® CAT 5/E/Y/PN Flex

ETHERNET CABLE CATEGORY 5... FOR FLEXIBLE USE



SEARCH ON EXPRESS.ECSNZ.COM

Item No	Type	Number of pairs	OD (mm)	Sheath Type	EXPRESS Category ID
	LAPP KABEL STUTTGART UNITRONIC® LAN 200 MHz F/UTP CAT.5e Y 4x2x26AWG/7			PVC	#2024
2170127	ETHERLINE LAN 200 F/UTP Cat.5e FLEX	4 x 2 x AWG 26/7	5.6	PVC	#2024
	LAPP KABEL STUTTGART ETHERLINE® Y Flex CAT.5e 4x2xAWG26/7			CUL us EtherNet/IP®	
2170486	ETHERLINE Y Flex CAT.5e	4 x 2 x AWG 26/7	6.2	PVC	#2011
	LAPP KABEL STUTTGART UNITRONIC® EtherLine Flex			LSZH	#2011
2170299	ETHERLINE H FLEX CAT.5e	4 x 2 x AWG 26/7	6.1	LSZH	#2011
	LAPP KABEL STUTTGART ETHERLINE® P Flex CAT.5e			EtherNet/IP®	
2170300	ETHERLINE P Flex CAT.5e	4 x 2 x AWG 26/7	6.1	PUR	#2011
	LAPP KABEL STUTTGART ETHERLINE® PN Cat.5 Y FLEX FC 2x2xAWG22/7			CUL us ECOLAB® EtherNet/IP®	
2170886	ETHERLINE PN Cat.5 Y FLEX FC	2 x 2 x AWG 22/7	6.5	PVC	#2015
	LAPP KABEL STUTTGART ETHERLINE® ROBUST PN Cat.5			ECOLAB®	
2170451	ETHERLINE ROBUST PN Cat.5	2 x 2 x AWG 22/7	6.5	TPE	#1918

Ethernet® CAT 7 Flex

DATA CABLE FOR PATCHCABLE APPLICATIONS

#46



SEARCH ON EXPRESS.ECSNZ.COM

Item No	Type	Number of pairs	OD (mm)	Sheath Type	EXPRESS Category ID
	LAPP KABEL STUTTGART ETHERLINE® LAN 600 S/FTP Cat.7 Flex			PVC	#46
2170144	UNITRONIC LAN 600 S/FTP CAT7 Y FLEX	4 x 2 x AWG 26/7	6.5	PVC	#46
	LAPP KABEL STUTTGART ETHERLINE® Cat.7 FLEX 4x2xAWG26/7			CUL us EtherNet/IP®	
2170934	ETHERLINE Cat.7 FLEX	4 x 2 x AWG 26/7	6.4	PUR	#46

ETHERLINE® ROBUST CAT 7

PROFINET & INDUSTRIAL ETHERNET CAT.7 FOR PROFINET APPLICATIONS

#1918



SEARCH ON EXPRESS.ECSNZ.COM

Item No	Type	Number of pairs	OD (mm)	Sheath Type	EXPRESS Category ID
	LAPP KABEL STUTTGART ETHERLINE® ROBUST PN Cat.7			ECOLAB®	
2170452	ETHERLINE ROBUST PN Cat.7	4 x 2 x AWG 23/7	8.7	TPE	#1918
2170453	ETHERLINE ROBUST Cat.7 FLEX	4 x 2 x AWG 26/7	6.2	TPE	#1918

SUPER FINE STRANDED CONDUCTORS FOR CONSTANT MOVING APPLICATIONS

ETHERLINE® Cat.5e FD

ETHERNET CABLE CATEGORY 5E, CLASS D FOR USE IN DRAG CHAIN APPLICATIONS - VERIFIED UP TO 100 MHZ

#2012



SEARCH ON EXPRESS.ECSNZ.COM

Item No	Type	Number of pairs	OD (mm)	Sheath Type	EXPRESS Category ID
	LAPP KABEL STUTTGART ETHERLINE® FD P Cat.5e 2x2xAWG26/19				EtherNet/IP®
2170289	ETHERLINE FD P Cat.5e 2x2x26/19AWG	2 x 2 x AWG 26/19	5.9	PUR	#2012
2170489	ETHERLINE FD P CAT5e 4X2XAWG26	4 x 2 x AWG 26/19	6.3	PUR	#2012

ETHERLINE® CAT.6 FD

ETHERNET CABLE CATEGORY 6, CLASS E FOR USE IN DRAG CHAIN APPLICATIONS - VERIFIED UP TO 250 MHZ

#46



SEARCH ON EXPRESS.ECSNZ.COM

Item No	Type	Number of pairs	OD (mm)	Sheath Type	EXPRESS Category ID
	LAPP KABEL STUTTGART ETHERLINE® Cat.6 FD 4x2xAWG26/19				EtherNet/IP®
2170488	ETHERLINE FD P CAT.6 4X2XAWG26	4 x 2 x AWG 26/19	7.8	PUR	#46

SUPER FINE STRANDED CONDUCTORS FOR ROBOTIC TORSION APPLICATIONS

CAT 5/6/7 Robotics

ETHERNET CABLE CATEGORY 6, CLASS E FOR USE IN DRAG CHAIN APPLICATIONS - VERIFIED UP TO 250 MHZ

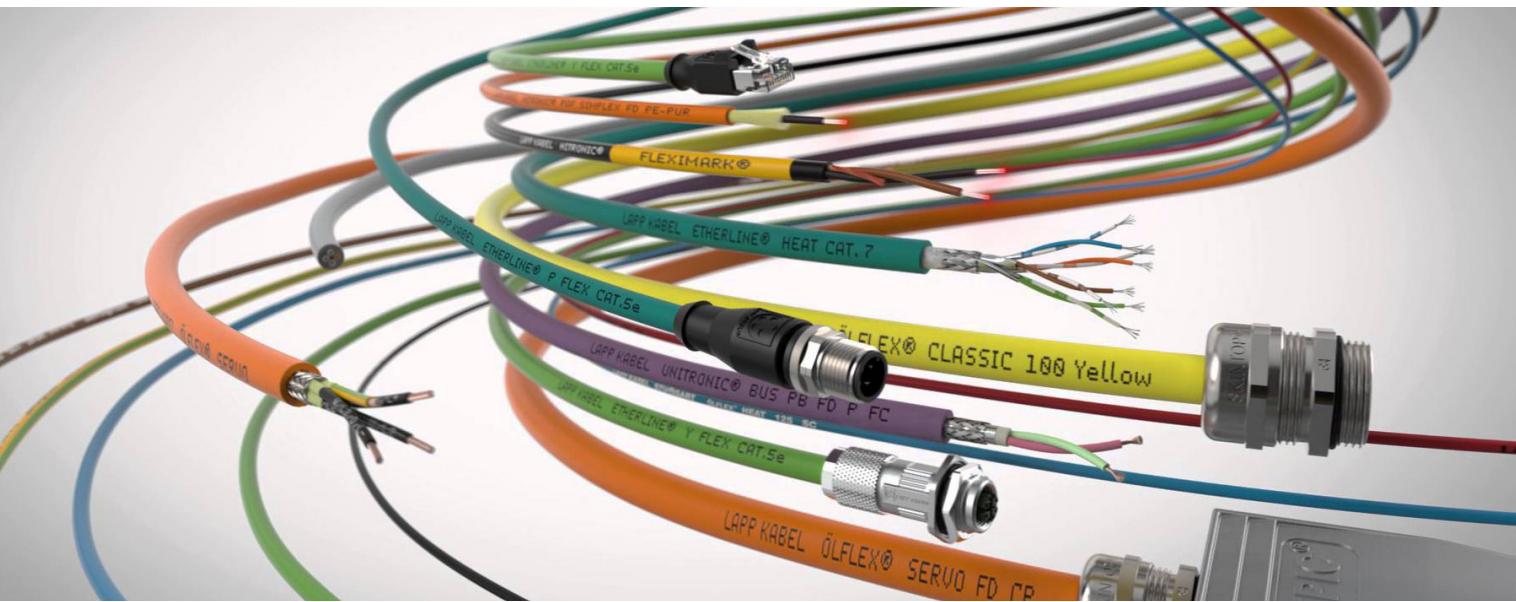
#2013



Item No	Type	Number of pairs	OD (mm)	Sheath Type	EXPRESS Category ID
	LAPP KABEL STUTTGART ETHERLINE® TORSION Cat.5 2x2xAWG22/19				EtherNet/IP®
2170888	ETHERLINE TORSION P CAT.5a	"2 x 2 x AWG 22/19	6.5	PUR	#2013
	LAPP KABEL STUTTGART ETHERLINE® TORSION Y Cat.6A 4x2xAWG24/7				EtherNet/IP®
2170482	ETHERLINE TORSION Y CAT6A	4 x 2 x AWG 24/7	8.9	PVC	#2013
	LAPP KABEL STUTTGART ETHERLINE® TORSION Cat.7 4x2xAWG24/7				EtherNet/IP®
2170481	ETHERLINE TORSION Cat.7	4 x 2 x AWG 24/7	9.4	PUR	#2013



ETHERNET CABLE





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Why pay thousands of dollars on equipment when you can rent it? Increase efficiency and save money by renting the right tools for greater, more profitable job opportunities. Now you can say yes to those big projects without the big outlay.



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SERVICE DOESN'T STOP WHEN THE GOODS TURN UP

By leveraging this valuable input, we continuously enhance our systems to provide better support. We take into consideration the unique pain points experienced by individuals within your organisation and strive to tailor our solutions accordingly. This customer-centric approach is what sets our technology and systems apart, positioning us as the preferred choice for numerous companies in the market.



Application

Generally used for long transmission runs. Typically installed in conduit ducts or cable trays.

Special Features

- » Suitable for direct burial
- » Suitable for direct installation outdoors

Notes

- » More versions available on request

Construction

UV resistant (outdoor suitable). Special water blocking tape for water protection. Tough PE outer sheath.

Item No	Fibre Size	Cores	Core Jacket	Cable OD
Multi Mode (OM3)				
27600304	50/125	4	250 micron	7.3 mm
27600308	50/125	8	250 micron	7.3 mm
27600312	50/125	12	250 micron	7.3 mm
27600324	50/125	24	250 micron	8.3 mm
Single Mode (OS2)				
27600908	9/125	8	250 micron	7.3 mm
27600912	9/125	12	250 micron	7.3 mm
27600924	9/125	24	250 micron	8.3 mm

Terminations

CONNECTORS, BREAKOUT BOXES AND OTHER ACCESSORIES

Application

Each end of the fibre distribution cable should be terminated into a breakout box. A short fibre patch cable is then run to the end device.

Special Request

Cables can be pre-terminated and supplied on drums ready for site installation. This is available on request. Free training and a getting started guide for the No-Polish system are available on request.

Features

"No Polish" connectors can take as little as 2 minutes per connection. The fibre requires no polishing.



Item No Description

Termination Kit	Description
ECS-FO-KIT	No Polish Connector Termination Kit with cleaver (SC & LC Only)
Connectors	
ECS-FO-SC-50	No Polish SC Connector MM 50 / 125 µm
ECS-FO-SC-62,5	No Polish SC Connector MM 62,5 / 125 µm
ECS-FO-SC-9	No Polish SC Connector SM 9 / 125 µm
ECS-FO-LC-50	No Polish LC Connector MM 50 / 125 µm

Fibre Patch Cables

FIBRE PATCH LEADS LC, ST, SC

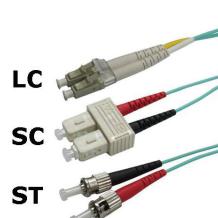
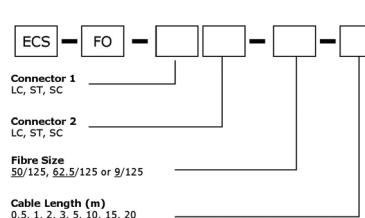
Application

Generally used for short flexible installations between breakout boxes and the end devices.

Fibre options

- » ST, SC & LC connections
- » A range of lengths available

Connector 1	Connector 2	Fibre Size	Cable Length (m)
LC, ST, SC	LC, ST, SC	50/125, 62,5/125 or 9/125	0.5, 1, 2, 3, 5, 10, 15, 20
LC, ST, SC	LC, ST, SC	50/125, 62,5/125 or 9/125	0.5, 1, 2, 3, 5, 10, 15, 20
LC, ST, SC	LC, ST, SC	50/125, 62,5/125 or 9/125	0.5, 1, 2, 3, 5, 10, 15, 20
LC, ST, SC	LC, ST, SC	50/125, 62,5/125 or 9/125	0.5, 1, 2, 3, 5, 10, 15, 20



RENT ME
3M No Polish Fibre Termination Kit with Cleaver

projects.ecsnz.com / rentals

\$50
per / day



Industrial Splice Boxes

HITRONIC SBX INDUSTRIAL SPLICE BOXES FOR SPLICING FIBRE OPTIC CABLES

#2332



SEARCH ON EXPRESS.ECSNZ.COM



Item No	Description	Application	Housing	Colour
Multimode G50 OM3				
LAPP-29500791	HITRONIC SBX 12xST-D MT PG150 G50 OM3		metal	
LAPP-29500795	HITRONIC SBX 12xSC-D TQ PG150 G50 OM3		plastic	turquoise
LAPP-29500804	HITRONIC SBX 12xLC-D TQ PG150 G50 OM3		plastic	turquoise
LAPP-29500776	HITRONIC SBX 6xST-D MT PG150 G50 OM3		metal	
LAPP-29500781	HITRONIC SBX 6xSC-D TQ PG150 G50 OM3		plastic	turquoise
LAPP-29500787	HITRONIC SBX 6xSC-RJ BG PG150 G50 OM3	PROFINET	plastic	beige
LAPP-29500800	HITRONIC SBX 6xLC-D TQ PG150 G50 OM3		plastic	turquoise
Multimode G50 OM2				
LAPP-29500790	HITRONIC SBX 12xST-D MT PG150 G50 OM2		metal	
LAPP-29500794	HITRONIC SBX 12xSC-D BG PG150 G50 OM2		plastic	beige
LAPP-29500803	HITRONIC SBX 12xLC-D BG PG150 G50 OM2		plastic	
LAPP-29500775	HITRONIC SBX 6xST-D MT PG150 G50 OM2		metal	
LAPP-29500780	HITRONIC SBX 6xSC-D BG PG150 G50 OM2		plastic	beige
LAPP-29500786	HITRONIC SBX 6xSC-RJ BG PG150 G50 OM2	PROFINET	plastic	beige
LAPP-29500799	HITRONIC SBX 6xLC-D BG PG150 G50 OM2		plastic	beige
Multimode G62,5 OM1				
LAPP-29500774	HITRONIC SBX 6xST-D MT PG150 G62.5 OM1		metal	
LAPP-29500779	HITRONIC SBX 6xSC-D BG PG150 G62.5 OM1		plastic	beige
LAPP-29500785	HITRONIC SBX 6xSC-RJ BG PG150 G62.5 OM1	PROFINET	plastic	beige
LAPP-29500798	HITRONIC SBX 6xLC-D BG PG150 G62.5 OM1		plastic	beige
Singlemode E9/125 OS2				
LAPP-29500793	HITRONIC SBX 12xST-D MT PG150 E9 OS2		metal	
LAPP-29500797	HITRONIC SBX 12xSC-D BL PG150 E9 OS2		plastic	blue
LAPP-29500806	HITRONIC SBX 12xLC-D BL PG150 E9 OS2		plastic	blue
LAPP-29500778	HITRONIC SBX 6xST-D MT PG150 E9 OS2		metal	
LAPP-29500783	HITRONIC SBX 6xSC-D BL PG150 E9 OS2		plastic	blue
LAPP-29500784	HITRONIC SBX 6xSC-D MT PG150 E9 OS2		metal	
LAPP-29500789	HITRONIC SBX 6xSC-RJ BL PG150 E9 OS2	PROFINET	plastic	blue
LAPP-29500802	HITRONIC SBX 6xLC-D BL PG150 E9 OS2 p		plastic	blue

HITRONIC 19" Fibre Racks

FIBRE DISTRIBUTION IN SERVER / CONTROL ROOMS

#53



SEARCH ON EXPRESS.ECSNZ.COM

Application

Fibre terminations tray for installation in 19" server racks.

Details

- » Distribution for up to 24 single fibres
- » Slide out tray
- » Holds up to 4 splicing cartridges
- » Unpopulated (couplers supplied separately)
- » Material: Steel

Item No	Number of Connection Points	Suitable Couple Style	Dimensions (WxHxD)	Size
CE9135	12 Duplex holes for SC/LC/ST couplers	Rectangle	483 x 44.5 x 170mm	1 RU



Splice Box Compact Fibre Distribution Box

FIBRE DISTRIBUTION AROUND THE FACTORY

#53

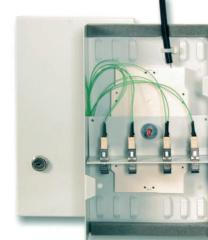


SEARCH ON EXPRESS.ECSNZ.COM

Details

- » Lockable (2 keys supplied with box)
- » Includes distribution plates for both 4 x SC Duplex and 8 x ST Simplex

Item No	Description	Material	Dimensions
CE9147	Splice Box Compact - Fibre Distribution Box	Steel	(WxHxD): 265 x 150 x 55mm



Mini Wall Mounted Rack Fibre Distribution Box

FIBRE DISTRIBUTION AROUND THE FACTORY

#53



SEARCH ON EXPRESS.ECSNZ.COM

Details

- » Lockable (2 keys supplied with box)
- » Distribution plate not included with box
- » Holds up to 4 splicing cartridges

Item No	Description	Material	Dimensions
CE9150	Mini Wall Mounted Rack - Fibre Distribution Box	Steel	(WxHxD): 320 x 280 x 54mm
CE9153	Distribution Plate for 12 x SC duplex connectors	Steel	



Plastic Fibre Distribution Box

FIBRE DISTRIBUTION AROUND THE FACTORY

#53



SEARCH ON EXPRESS.ECSNZ.COM

Details

- » Distribution for up to 8 single fibres
- » Includes distribution plates for both 4 x SC Duplex and Splicing Cartridge

Item No	Description	Material	Dimensions
ECS-FO-Plastic-01	Plastic - Fibre Distribution Box	Plastic	(WxHxD): 183 x 129 x 39mm



Fibre Accessories

ACCESSORIES FOR DISTRIBUTION UNITS

#53



SEARCH ON EXPRESS.ECSNZ.COM

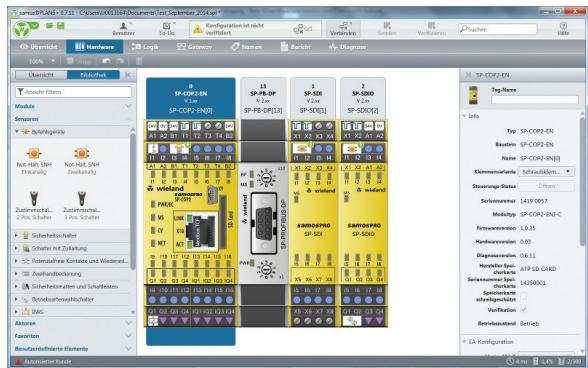
Item No	Description	Item No	Description
Splice Cartridges		Fibre Couplers	
CE9914	Fibre cable holder. For spooling tails.	FO-SCSC-Joiner	Duplex SC Coupler for 50/125 and 62,5/125
CE9914D	Cover for fibre cable holder.	FO-SCSC-Joiner-9	Duplex SC Coupler for 9/125
CE9916	Splice Holder (up to 2 per cartridge)	FO-STST-Joiner	Duplex ST Coupler for 50/125 and 62,5/125
		FO-STST-Joiner-9	Duplex ST Coupler for 9/125
		FO-LCLC-Joiner	Quad LC Coupler for 50/125 and 62,5/125
		FO-LCLC-Joiner-9	Quad LC Coupler for 9/125



 **RENT ME** | **\$70** per day

Fluke Networks Multimode Fibre Optic Cable Tester

projects.ecsnz.com/rentals



Details

- » Cost effective and extremely flexible programmable safety controller.

Application

- » SIL3 (IEC 61508), SILCL3 (IEC 62061)
- » Category 4 (EN ISO 13849-1)



Safety Controllers

Features

- » Free configuration software
- » Flexible modular slice based IO system
- » Each controller can process up to 96 Safe Inputs and 48 Safe outputs



Input Modules



Fieldbus Modules

Item No	Description	Connection
Safety Controllers		
R1.190.1110.0	SP-COP1-A DC 24V (Controller Module)	USB Only
R1.190.1210.0	SP-COP2-EN-A DC 24V (Controller Module)	Ethernet Programming
R1.190.1310.0	SP-COP2-ENI-A DC 24V (Controller Module)	Modbus TCP and Ethernet IP
R1.190.1000.0	SP-COP-CARD1 (Memory Insert)	
R1.190.1010.0	SP-CABLE-USB1 (Programming Cable)	
Input / Output Modules		
R1.190.0030.0	8 Safe Inputs / 4 Safe Outputs	Screw
R1.190.0040.0	8 Safe Inputs / 4 Safe Outputs	Spring
Input Modules		
R1.190.0050.0	8 Safe Inputs	Screw
R1.190.0060.0	8 Safe Inputs	Spring
Fieldbus Modules		
R1.190.0210.0	Can Open	Can Connector
R1.190.0190.0	Profibus DP	D9

Wieland SAMOS S4000 Series

UNIVERSAL SAFETY RELAYS

#42



SEARCH ON EXPRESS.ECSNZ.COM

SNO 4062K

The device is a two-channel switching device for emergency stop applications with self-monitoring on each ON-OFF cycle. It complies with EN 60204-1 and is equipped with forcibly guided relays.

Basic function

With supply voltage applied to terminals A1/A2 and the safety inputs closed, pressing the reset button closes the enabling current paths (manual start). When the safety inputs are opened/de-energized the enabling current paths will open.



Emergency Stop Monitoring



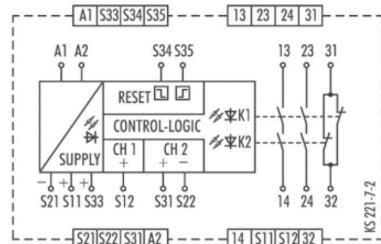
Protective Gate Monitoring



Monitoring Light Barriers



Item No	Description	Connection
R1.188.0700.2	SNO4062K	Screw Terminals



Wieland Emergency Stops

CAT 2,3,4 (EN ISO 13849-1) ESTOP BUTTONS

#43



SEARCH ON EXPRESS.ECSNZ.COM



Estop Buttons



Contacts



Base

Item No	Type	Description
Estop Buttons		
R1.200.0100.0	SNH 0100	IP65 Estop Button
R1.200.0400.0	SNH 0400	IP65 Estop Button with Illumination
R1.200.0500.0	SNH 0500	IP65 Estop Button with Key Lock Release
Contacts		
R1.200.0022.0	SNH 0022	2 x N/C with Failure Protection
R1.200.0023.0	SNH 0023	2 x N/C with Failure Protection (with Illumination)
R1.200.0032.0	SNH 0032	2 x N/C + 1 x N/O with Failure Protection
R1.200.0033.0	SNH 0033	2 x N/C + 1 x N/O with Failure Protection (with Illumination)
Base		
R1.200.6001.0	SNH 6001	Estop base Housing (M20 gland knockout)

Wieland Magnet Safety Switches

CAT 4 (EN ISO 13849-1) MAGNETIC SENSORS IP67

#44



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Item No	Type	Contacts	Dimensions
Block Magnet			
R1.100.0119.0	SMA 0119	N/O + N/C	
R1.100.0129.0	SMA 0129	2 x N/O	w36 x h26 x d13
R1.100.4100.0	Spacer / Washer		
Rectangle Magnet			
R1.100.0219.0	SMA 0219	N/O + N/C	
R1.100.0229.0	SMA 0229	2 x N/O	w88 x h25 x d14
R1.100.4200.0	Spacer / Washer		
Round Magnet			
R1.100.0319.0	SMA 0319	N/O + N/C	
R1.100.0329.0	SMA 0329	2 x N/O	M30 x 32mm
Interface Block			
R1.100.4001.0	SMI 1001	Up to 4 NC/NC Magnets	
Connection block for sensors up to Category 3 (EN ISO 13849-1) Signal output and LED Indication for each sensor			
Sensor Connectors			
22260309	M8 Straight with 2m cable		
22260310	M8 Straight with 5m cable		
22260317	M8 Straight with 10m cable		
22260311	M8 Angled with 2m cable		
22260312	M8 Angled with 5m cable		
22260319	M8 Angled with 10m cable		
22260126	M8 Connector (screw termination)		
22260983	Cable Joiner		
7038865	Sensor Cable 4 x 0.34		



Wieland Mechanical Safety Switches

SAFETY SWITCH WITH GUARDLOCKING AND SEPARATE ACTUATOR

#45



SEARCH ON EXPRESS.ECSNZ.COM



SIN 1330 AC/DC 24V



SIN 9001



SIN 9002

Item No	Type	Description
R1.310.1330.0	SIN 1330 AC/DC 24V	Safety switch with LED indication
R1.310.9001.0	SIN 9001	Standard Actuator
R1.310.9002.0	SIN 9002	Adjustable Actuator with ball point

MOXA Industrial Ethernet Switches

SWITCHES FOR FACTORY AUTOMATION (UNMANAGED)

#55



SEARCH ON EXPRESS.ECSNZ.COM

Notes

m = multimode
mm = multimode x 2
s = singlemode
ss = singlemode x 2



Item No	Notes	Housing	Copper Ports	Fibre Ports	Fibre Types	Fibre connectors
EDS-2xx Series (Entry-level Ethernet Switch)						
EDS-205A		Metal	5			
EDS-208A		Metal	8			
EDS-205A-xx-x		Metal	5	1 x Fibre	m, s	SC or ST
EDS-208A-xx-x		Metal	6	2 x Fibre	m, mm, s, ss	SC or ST
EDS-3xx Series (Medium-level Ethernet Switch)						
EDS-305		Metal	5			
EDS-308		Metal	8			
EDS-316		Metal	16			
EDS-305-xx-x		Metal	4	1 x Fibre	m, mm, s, ss	SC or ST
EDS-308-xx-x		Metal	6	2 x Fibre	m, mm, s, ss	SC or ST
EDS-G2xx Series (Full Gigabit)						
EDS-G205	5 Gigabit Ports	Metal	5			

MOXA Managed Ethernet Switches

SWITCHES FOR CRITICAL FACTORY NETWORKING

#56



SEARCH ON EXPRESS.ECSNZ.COM

Features

- » IGMP Snooping (Filters Allen Bradley broadcasts)
- » VLAN'S (Security feature for local area networks)
- » Turbo Ring (Ring option for redundant paths)
- » Port Trunking (Use multiple ports for more bandwidth)
- » Web Interface for setup



Item No	Notes	Housing	Copper Ports	Fibre Ports	Fibre Types	Fibre connectors
EDS-5xx Series (Managed Ethernet Switches)						
EDS-508A		Metal	8			
EDS-516A		Metal	16			
EDS-518A		Metal	18			
EDS-508A-xx-x		Metal	6	2 x Fibre	mm, ss	SC or ST
EDS-516A-xx-x		Metal	14	2 x Fibre	mm, ss	SC or ST
EDS-510 Series (Gigabit Switches)						
EDS-510A-3GT	3 Gigabit Ports	Metal	10			
EDS-510A-3SFP	5 Gigabit Ports	Metal	7	3 x Fibre	Requires SFP	LC

MOXA Fibre to Copper Converters

MEDIA CONVERTERS FOR FIBRE OPTICS

#57



SEARCH ON EXPRESS.ECSNZ.COM



Entry Level Converters



Medium-level Converters

Item No	Notes	Housing	Copper Ports	Fibre Ports	Fibre Types	Fibre connectors
Entry Level Converters						
MOXA-IMC-21-x-x		Plastic	1		s or m	
Medium-level Converters						
MOXA-IMC-101-x-x		Metal	1	1 x Fibre	s or m	
Gigabit Converters						
MOXA-IMC-101G-x-x	Gigabit of both ports	Metal	1	2 x Fibre	Requires SFP	LC



RS232



RS232, RS422 or RS485

Item No	Protocols	Serial Ports	Connections	Rack Mount	Power Required
RS232					
MOXA-NPORT-5110A	RS232	1	D9 Male		12 to 48Vdc
MOXA-NPort-5210	RS232	2	RJ45		12 to 48Vdc
MOXA-NPORT-5210A	RS232	2	D9 Male		12 to 48Vdc
MOXA-NPORT-5410	RS232	4	D9 Male		12 to 48Vdc
MOXA-NPORT-5610-8	RS232	8	RJ45		240Vac
MOXA-NPORT-5610-16	RS232	16	RJ45	Yes	240Vac
RS232, RS422 or RS485					
MOXA-NPORT-5150A	RS232, 422/485	1	D9 Male		12 to 48Vdc
MOXA-NPORT-5232	RS232, 422/485	2	Terminal Block		12 to 48Vdc
MOXA-NPORT-5450	RS232, 422/485	4	Terminal Block		12 to 48Vdc
MOXA-NPORT-5650-8	RS232, 422/485	8	RJ45		240Vac
MOXA-NPORT-5650-16	RS232, 422/485	16	RJ45	Yes	240Vac

MOXA Accessories

COMMON MOXA ACCESSORIES



MOXA-RK-4U



MOXA-DB9F-TB



MOXA-UPORT-1150

Item No	Description
MOXA-CBL-RJ45M9-150	RJ45 to D9 Male Cable (1.5m) - for NPORT 5210 / 5610
MOXA-CBL-RJ45F9-150	RJ45 to D9 Female Cable (1.5m) - for NPORT 5210 / 5610
MOXA-CBL-RJ45M25-150	RJ45 to D25 Male Cable (1.5m) - for NPORT 5210 / 5610
MOXA-CBL-RJ45F25-150	RJ45 to D25 Female Cable (1.5m) - for NPORT 5210 / 5610
MOXA-PWR-12120-AU-L1	240VAC NZ Wall Power Adapter 12VDC 1.2A SAA
MOXA-DB9F-TB	DB9 Female to Terminal Block (Easy to wire)
MOXA-RK-4U	19" Rack Kit for Din Rail Devices
MOXA-UPORT-1150	Serial RS232,422/485 to USB Converter

Vecow Fanless Industrial PC

ADVANCED BOX PC, 2 GBE LAN, 1 DVI-I, 4 RS-232/422/485, 4 USB3.0

Vecow SPC-2000 Series Ultra-compact Embedded System features with ultra small form factor, multiple I/O onboard, WiFi/3G/4G/UMTS/GPS supported, reliable performance in harsh environments and wide range of power input to make easy implementation possible.

Vecow SPC-2000 Series Ultra-compact Embedded System is your powerful, fanless, compact and cost effective choice to meet various requirements of Automation, Machine Vision, Surveillance and any Internet of Things (IoT) applications.

Features

- » Intel® Atom™ Quad Core E3845 1.91GHz Processor
- » Rugged, -25°C to 70°C Operating Temperature
- » Fanless and Ultra-compact
- » 6V to 36V DC Power Input
- » 4 COM (RS-232/422/485) with Auto Flow Control
- » DVI-I for VGA/DVI/HDMI Video Output
- » 4 USB 3.0
- » 2 GbE LAN

Application

- » Harsh Environments
- » Automation
- » Machine Vision
- » Surveillance
- » Industrial Internet of Things (IoT)

Item No

- » SPC-2145



SPC-2145

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Automation & Networking Online

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 **LAPP**

Industrial Ethernet Switch

NETWORK SWITCHES FOR ETHERNET BASED SOLUTIONS IN SMART FACTORIES

#55



SEARCH ON EXPRESS.ECSNZ.COM

Info

- » Redundant power inputs
- » Robust metal housing and DIN rail mounting
- » Fanless - maintenance free

Product Features Unmanaged

- » RJ45 Ports: 10/100BaseT(X)
- » Packet Buffer Size: 512kbit
- » Redundant Power Input: 24 VDC
- » Broadcast storm protection

Product Features Managed (in addition to Unmanaged)

- » Simple setup of redundant networktopologies
- » Packet Buffer Size: 1Mbit
- » Supported protocols: HTTP, Telnet, EtherNet/IP, Modbus/TCP, IPv6, and many more

Benefits

- » Improve your total cost of ownership with faster installation and lower downtime
- » Most flexible and globally present solutions from one hand

Temperature Range

- » Unmanaged: -10°C to +60°C
- » Managed: 0°C to +60°C



Item No

Ports

Item No	Ports
Unmanaged	
21700118	5
21700119	8
Managed	
21700121	5
21700122	8

UNMANAGED

MANAGED

Industrial Ethernet Switch Gen2

FASTER NETWORK SWITCHES FOR ETHERNET BASED SOLUTIONS IN SMART FACTORIES

#56



SEARCH ON EXPRESS.ECSNZ.COM

Info

- » Redundant power inputs
- » Robust metal housing and DIN rail mounting
- » Fanless - maintenance free

Product Features Unmanaged

- » RJ45 Ports: 10/100/1000 BaseT(X)
- » Packet Buffer Size: 1Mbit

Product Features Managed (in addition to Unmanaged)

- » Simple setup of redundant networktopologies
- » Supported protocols: HTTPS, SSL, SSH, TACACS+, RADIUS, SNTP Client, Ethernet IP, Modbus TCP

Benefits

- » Improve your total cost of ownership with faster installation and lower downtime
- » Most flexible and globally present solutions from one hand

Temperature Range

- » Unmanaged: -10°C to +60°C
- » Managed: -40°C to +75°C



Item No

Ports

Item No	Ports
Unmanaged	
21700123	5
21700124	8
Managed	
21700125	6
21700126	8

UNMANAGED

MANAGED

Firewall / NAT Router

INDUSTRIAL NAT ROUTER WITH FIREWALL FUNCTION

#1697



SEARCH ON EXPRESS.ECSNZ.COM

Info

- » Compact design
- » Tailor-made solution

Benefits

- » Compact design with high port density
- » Reduced installation effort in existing networks
- » Easy Configuration via web-interface
- » Space saving and industrial grade DIN rail mounting

Temperature Range

- » Managed: -40°C to +75°C

Item No

Type

Ports

21700141	Managed	4
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TOSIBOX

CONNECTIVITY MEETS SECURITY

TOSIBOX® Lock

is a router with firewall sharing access to devices. One TOSIBOX® Lock protects all devices behind it. As the company grows, more Locks can be added to various locations.

LOCK 500/500i - TBL5B/TBL5iB

Features

High-end connectivity device bringing unprecedented possibilities for customers to manage their operations and to build new IoT solutions.

- » Up to 50 concurrent VPN connections
- » VPN throughput up to 70 Mbit/s
- » TOSIBOX® Lock 500i with built-in LTE modem
- » TOSIBOX® Lock 500



LOCK 175 - TBL175

Features

Ideal for demanding industry sectors that require an all-in-one solution that is compact, able to handle all environments and suited to global market usage.

- » High VPN throughput, end-to-end encryption between TOSIBOX® devices, users and servers
- » Integrated WiFi as connectivity method or access point for wireless devices on site
- » Built-in global LTE modem – no external modem needed
- » TosiOnline™ automatic reconnection of dropped connections



TOSIBOX® Key

is a dongle used to access the network. In addition to a Master Key, the ecosystem can have several users with more physical keys, mobile app or software licenses.

KEY - TBK2 SOFT KEY - TBSKL1

Features

Intelligent cryptoprocessing device that enables a secure connection between your computer and one or more TOSIBOX® Locks, giving you full visibility and control over the network devices connected to the Lock. The Key is fully compatible with all existing TOSIBOX® products.

- » TOSIBOX® Key USB - must have at least one for the Master Key
- » TOSIBOX® Softkey is a computer software that works as a Sub Key controlled via a physical Master Key



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NETWORKING


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TOSIBOX VPN SECURITY SOLUTIONS

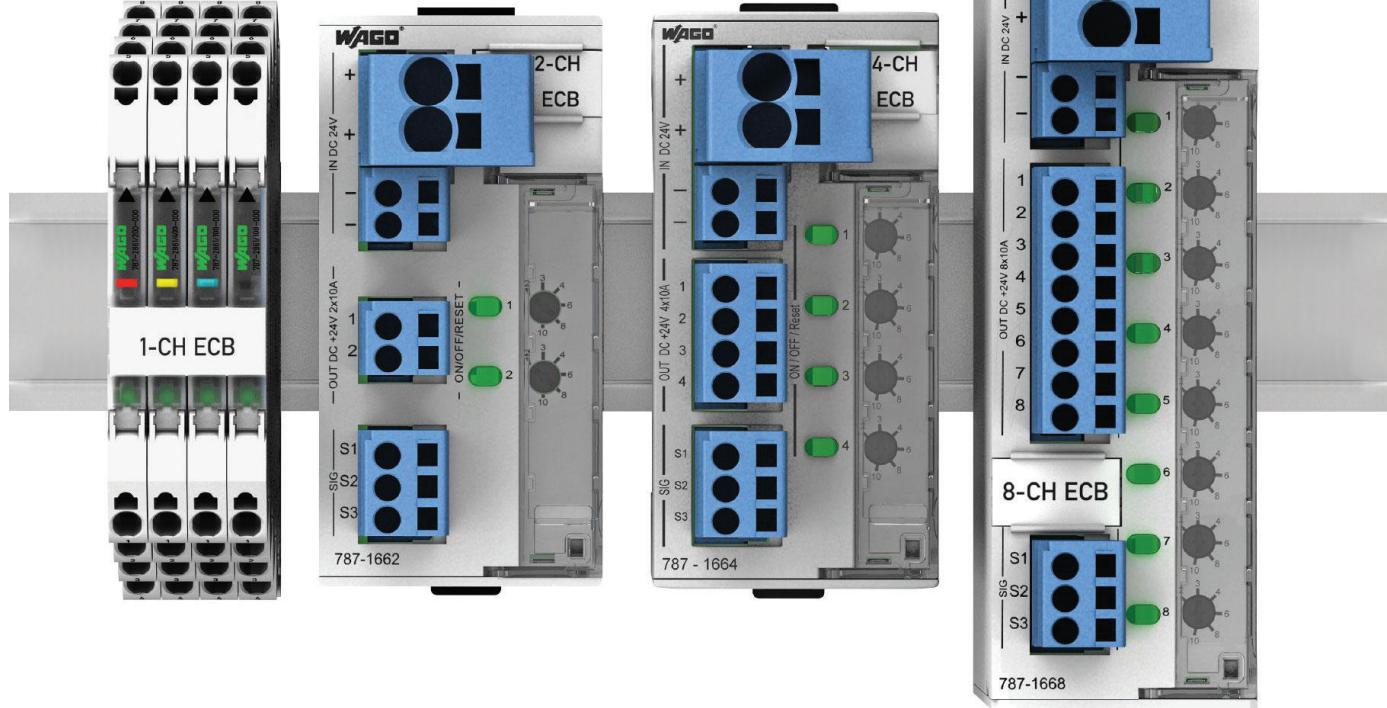
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WAGO ECBs

ELECTRONIC CIRCUIT BREAKER

#2140



SEARCH ON EXPRESS.ECSNZ.COM

Description

The ECB checks whether the output current is greater than the nominal current. As soon as the output current exceeds the nominal current, the output is electronically switched off by a semiconductor switch. Trip time depends on the magnitude of the overcurrent.

Benefits

- » Ensures precision settings
- » Reaction within a short time even at low overcurrents
- » Protection of long cable runs and small cross sections possible



787-1664



787-1668



787-2861/400-000

Part Number

Type

Multi-Channel - Channel Adjustable via Selector Switch

787-1664	4-channel ; 2/3/4/6/8/10A
787-1668	8-channel ; 2/3/4/6/8/10A

Multi-Channel - Channel Adjustable via Selector Switch & I/O Link Interface

787-1664/000-080	4-channel ; 1/2/3/4/6/8/10A adjustable for each channel separately via IOLink interface - 1/2/4/6/10A adjustable for each channel via selector switch
787-1668/000-080	8-channel ; 1/2/3/4/6/8/10A adjustable for each channel separately via IOLink interface - 1/2/4/6/10A adjustable for each channel via selector switch

Multi-Channel - Channel Adjustable via Selector Switch with Active Current Limitation

787-1664/006-1000	4-channel ; 0.5/1/2/3/4/6A
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Single Channel Adjustable

787-2861/108-020	1-channel; 24 VDC input voltage; adjustable 1 to 8 A; Signal contact
------------------	----------------------------------------------------------------------

Single Channel Fixed

787-2861/200-000	1-channel; 24 VDC input voltage; 1 A; communication capability
787-2861/200-000	1-channel; 24 VDC input voltage; 2 A; communication capability
787-2861/400-000	1-channel; 24 VDC input voltage; 4 A; communication capability
787-2861/600-000	1-channel; 24 VDC input voltage; 6 A; communication capability
787-2861/800-000	1-channel; 24 VDC input voltage; 8 A; communication capability



ABB RCCB's

RESIDUAL CURRENT CIRCUIT BREAKERS

#1768



SEARCH ON EXPRESS.ECSNZ.COM

Standard & Voltage	Rated Residual Current	Operational Temperature
» AS/NZS 61008 » 230/400V	» 30mA	» -5 to 40deg C
Item No	Type	Current Rating
2 Pole		
FH202A40	FH202 Type A	40A
FH202A63	FH202 Type A	63A
4 Pole		
FH204A40	FH204 Type A	40A
FH204A63	FH204 Type A	63A



ABB RCBO's

RESIDUAL-CURRENT CIRCUIT BREAKER WITH OVERLOAD PROTECTION

#1768



SEARCH ON EXPRESS.ECSNZ.COM

Standard & Voltage	Rated Residual Current	Operational Temperature
» AS/NZS 61009.1 » 230V	» 6kA	» 25 to 55deg C
Item No	Type	Current Rating
30mA		
DSN201EC6A30	DSN201E Type A	6A
DSN201EC10A30	DSN201E Type A	10A
DSN201EC16A30	DSN201E Type A	16A
DSN201EC20A30	DSN201E Type A	20A
DSN201EC25A30	DSN201E Type A	25A
DSN201EC32A30	DSN201E Type A	32A
10mA		
DSN201EC10A10	DSN201E Type A	10A
DSN201EC16A10	DSN201E Type A	16A
DSN201EC20A10	DSN201E Type A	20A



ABB Isolators

MAIN ISOLATION SWITCHES

#1755



SEARCH ON EXPRESS.ECSNZ.COM

Standard & Voltage	Operational Temperature	
» AS/NZS 60947.3 » 230/400V	» 25 to 55deg C	
Item No	Type	Current Rating
1 Pole		
SHD20163	SHD201	63A
E201100RD	E201	100A
2 Pole		
SHD20263	SHD202	63A
E202100RD	E202	100A
3 Pole		
SHD20363	SHD203	63A
E20380RD	E203	80A
E203100RD	E203	100A



ABB MCB's - 6kA

MINIATURE CIRCUIT BREAKERS - S200 6KA SERIES

#1768



SEARCH ON EXPRESS.ECSNZ.COM

Standards & Approvals

- » AS/NZS 60898
- » AS/NZS 60947
- » UL 1077

Operational Temperature

- » -25 to 55deg C

Operating Voltage

- » 1P: 230-240V AC, 72V DC
- » 2-4P: 400-440V AC, 125V DC



Current Rating

C Curve

D Curve

1 Pole

1A	S201C1	S201D1
2A	S201C2	S201D2
3A	S201C3	S201D3
4A	S201C4	S201D4
6A	S201C6	S201D6
10A	S201C10	S201D10
16A	S201C16	S201D16
20A	S201C20	S201D20
25A	S201C25	S201D25
32A	S201C32	S201D32
40A	S201C40	S201D40
50A	S201C50	S201D50
63A	S201C63	S201D63



2 Pole

1A	S202C1	S202D1
2A	S202C2	S202D2
3A	S202C3	S202D3
4A	S202C4	S202D4
6A	S202C6	S202D6
10A	S202C10	S202D10
16A	S202C16	S202D16
20A	S202C20	S202D20
25A	S202C25	S202D25
32A	S202C32	S202D32
40A	S202C40	S202D40
50A	S202C50	S202D50
63A	S202C63	S202D63



3 Pole

2A	S203C2	S203D2
3A	S203C3	S203D3
4A	S203C4	S203D4
6A	S203C6	S203D6
10A	S203C10	S203D10
16A	S203C16	S203D16
20A	S203C20	S203D20
25A	S203C25	S203D25
32A	S203C32	S203D32
40A	S203C40	S203D40
50A	S203C50	S203D50
63A	S203C63	S203D63



CO Auxiliary Contact 10A
Item No S2CH6R

Busbars & End Caps

AUXILIARY BUSBAR SYSTEMS FOR 6/10KA BREAKERS

#1764



SEARCH ON EXPRESS.ECSNZ.COM

Item No

Type

Current Rating

1 Pole

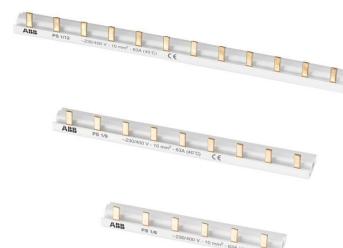
PS1/60	Busbar 60 x 1P	63A
PS-END0	End Cap for 1P	

2 Pole

PS2/58	Busbar 29 x 2P	63A
PS-END	End Cap for 2 & 3P	

3 Pole

PS3/60	Busbar 20 x 3P	63A
PS-END	End Cap for 2 & 3P	



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ABB MCB's - 10kA

MINIATURE CIRCUIT BREAKERS - S200M 10KA SERIES

#1762



SEARCH ON EXPRESS.ECSNZ.COM

Standards & Approvals

- » AS/NZS 60898
- » AS/NZS 60947
- » UL 1077

Operational Temperature

- » -25 to 55deg C

Operating Voltage

- » 1P: 230-240V AC, 72V DC
- » 2-4P: 400-440V AC, 125V DC

Current Rating

C Curve

D Curve

1 Pole

1A	S201MC1	S201MD1
2A	S201MC2	S201MD2
3A	S201MC3	S201MD3
4A	S201MC4	S201MD4
6A	S201MC6	S201MD6
10A	S201MC10	S201MD10
16A	S201MC16	S201MD16
20A	S201MC20	S201MD20
25A	S201MC25	S201MD25
32A	S201MC32	S201MD32
40A	S201MC40	S201MD40
50A	S201MC50	S201MD50
63A	S201MC63	S201MD63



2 Pole

1A	S202MC1	S202MD1
2A	S202MC2	S202MD2
3A	S202MC3	S202MD3
4A	S202MC4	S202MD4
6A	S202MC6	S202MD6
10A	S202MC10	S202MD10
16A	S202MC16	S202MD16
20A	S202MC20	S202MD20
25A	S202MC25	S202MD25
32A	S202MC32	S202MD32
40A	S202MC40	S202MD40
50A	S202MC50	S202MD50
63A	S202MC63	S202MD63



3 Pole

2A	S203MC2	S203MD2
3A	S203MC3	S203MD3
4A	S203MC4	S203MD4
6A	S203MC6	S203MD6
10A	S203MC10	S203MD10
16A	S203MC16	S203MD16
20A	S203MC20	S203MD20
25A	S203MC25	S203MD25
32A	S203MC32	S203MD32
40A	S203MC40	S203MD40
50A	S203MC50	S203MD50
63A	S203MC63	S203MD63



CO Auxiliary Contact 10A
Item No S2CH6R

ABB S200 & S200M CHASSIS

PAN ASSEMBLY FOR ABB MCB'S

#1767



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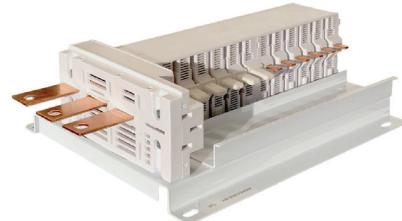
Standards & Approvals

- » Type Tested to AS3439.1

Fault Rating

- » 25kA for 0.1sec

Part Number	Number of Poles	Current Rating
ECM25024	24	250A
ECM25036	36	250A
ECM25048	48	250A
ECM25060	60	250A
ECM25072	72	250A



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MCB'S



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\$200

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LS MCCB

MOULDED CASE CIRCUIT BREAKERS SUITABLE FOR AC AND DC APPLICATIONS

#74



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Frame Size 100A / 50kA@415V



Frame Size 160A / 50kA@415V

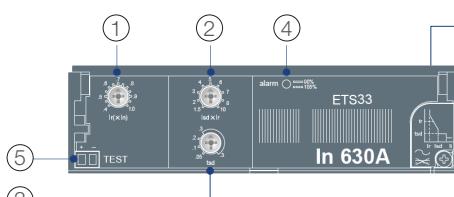
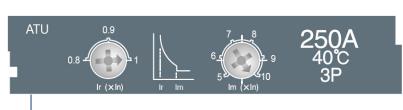
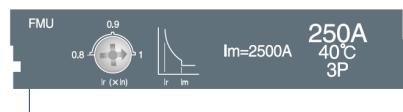


Frame Size 250A / 50kA@415V

Item No	Current Rating	Lug Hole Size	Trip Unit
Frame Size 100A / 50kA@415V			
0105011500	40A	M8	FMU
0105011600	50A	M8	FMU
0105011700	63A	M8	FMU
0105011800	80A	M8	FMU
0105011900	100A	M8	FMU
Frame Size 160A / 50kA@415V			
0105025900	125A	M8	ATU
0105025800	160A	M8	ATU
Frame Size 250A / 50kA@415V			
0105022900	200A	M8	ATU
0105023000	250A	M8	ATU
Frame Size 400A / 65kA@415V			
0108005100	400A	M10	ETS33
0108006300	630A	M10	ETS33
Frame Size 800A / 65kA@415V			
0111002300	800A	M12	ETS43

Trip Unit Types

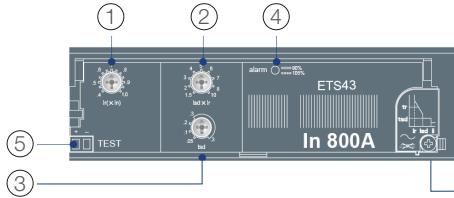
FOR MOULDED CASE CIRCUIT BREAKERS



ETS

- 1) Adjustable rated current setting (Ir)
- 2) Adjustable short time delay current setting (Isd)
- 3) Adjustable time delay setting (tsd)
- 4) Alarm LED

< 90%	Ir: ON
> 105%	Ir: ON-OFF
- 5) Test Connector





Item No	Switch Type	Suitable Models	Type
83011171701	AX	ALL	Indication for remote monitoring of ON/OFF
83011171702	AL	ALL	Trip Alarm Indication

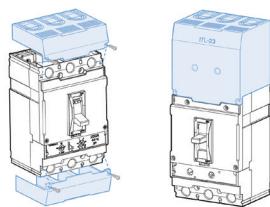


LS Terminal Covers

FOR MOULDED CASE CIRCUIT BREAKERS

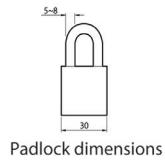


Short Cover	Longer Cover	Suitable Models
64621172011 (ITS 23)	64621172016 (ITL 23)	TS100, 160, 250
64621173011 (ITS 33)	64621173013 (ITL 33)	TS400, 630
64621174011 (ITS 43)	64621174013 (ITL 43)	TS800



LS Locking Devices

FOR MOULDED CASE CIRCUIT BREAKERS

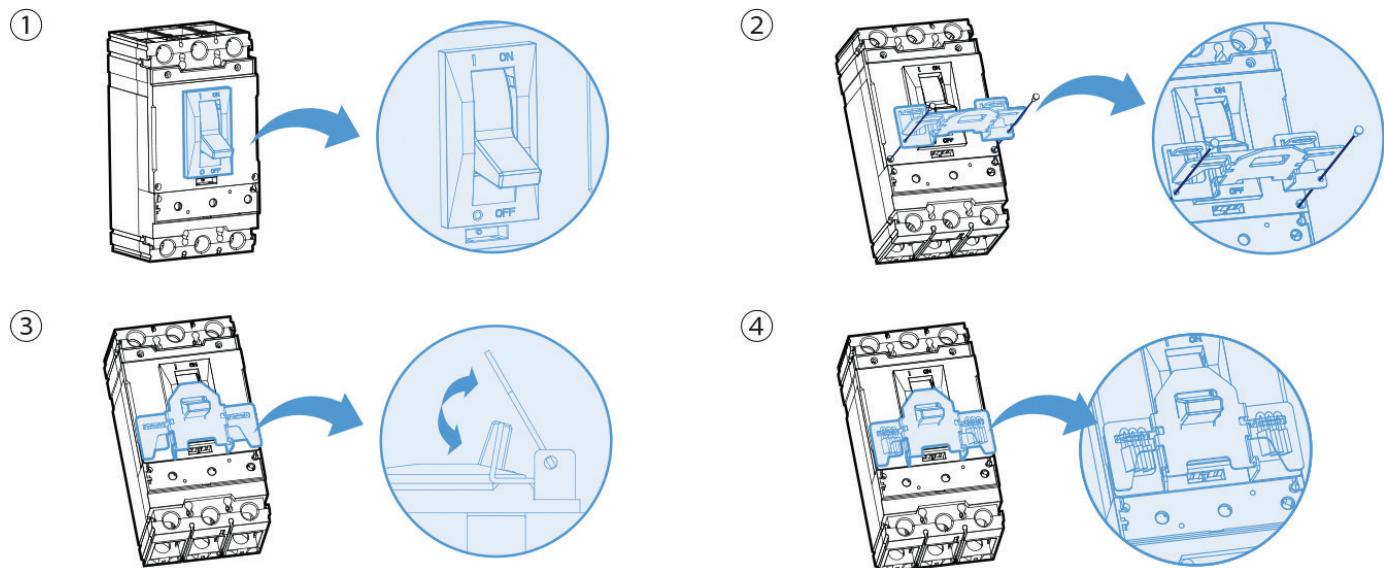


Locking Devices (OFF position)



Locking Devices (On/OFF position)

Item No	Type	Suitable Models	Notes
Locking Devices (OFF position)			
56771172801	PL2	TS100, 160, 250	Locks in OFF position only
56771173801	PL3	TS400, 630	Locks in OFF position only
56771174801	PL4	TS800	Locks in OFF position only
Locking Devices (On/OFF position)			
56771172802	PHL2	TS100, 160, 250	Can lock in either ON or OFF position
56771173802	PHL3	TS400, 630	Can lock in either ON or OFF position
56771174802	PHL4	TS800	Can lock in either ON or OFF position



eCS

MCCB'S

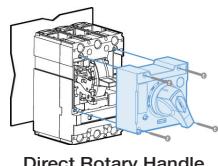
LS External Handles

FOR MOULDED CASE CIRCUIT BREAKERS

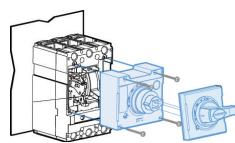
#79



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Direct Rotary Handle



Extended Rotary Handle

Item No	Type	Suitable Models
Direct Rotary Handle		
83111172801	DH2-S	TS100, 160, 250
83111173801	DH3-S	TS400, 630
83111174801	DH4-S	TS800
Extended Rotary Handle		
83111172806	EH2-S	TS100, 160, 250
83111173806	EH3-S	TS400, 630
83111174806	EH4-S	TS800

LS Manual Motor Starters

MOTOR CIRCUIT BREAKERS

#80



SEARCH ON EXPRESS.ECSNZ.COM

Features

- » Adjustable thermal release
- » Lockout with Handle
- » Large Scale for current setting
- » Touch safe terminals



Item No	Type	Dimensions	Min Rating (A)	Max Rating (A)
32H				
0705000400	MMS-32H-0.63A	W45 x H94 x D100	0.4	0.63
0705000500	MMS-32H-1A	W45 x H94 x D100	0.63	1
0705000600	MMS-32H-1.6A	W45 x H94 x D100	1	1.6
0705000700	MMS-32H-2.5A	W45 x H94 x D100	1.6	2.5
0705000800	MMS-32H-4A	W45 x H94 x D100	2.5	4
0705000900	MMS-32H-6A	W45 x H94 x D100	4	6
0705001100	MMS-32H-10A	W45 x H94 x D100	6	10
0705001300	MMS-32H-17A	W45 x H94 x D100	11	17
0705001200	MMS-32H-13A	W45 x H94 x D100	9	13
0705001400	MMS-32H-22A	W45 x H94 x D100	14	22
0705001500	MMS-32H-32H	W45 x H94 x D100	18	26
0705001600	MMS-32H-32A	W45 x H94 x D100	22	32
63H				
0706001300	MMS-63H-22A	W55 x H140 x D145	14	22
0706001600	MMS-63H-40A	W55 x H140 x D145	28	40
0706001700	MMS-63H-50A	W55 x H140 x D145	34	50
0706001800	MMS-63H-63A	W55 x H140 x D145	45	63

LS Auxiliary Feedback

FOR MANUAL MOTOR STARTERS

#81



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Auxiliary Switch Units (Front Mount)



Auxiliary Switch Units (Left Hand Side)

Item No	Type	Contacts	Mounting Type	Notes
Auxiliary Switch Units (Front Mount)				
83361941001	FX	2 NO	Front Mount	One per unit
83361941002	FX	1 NO / 1NC	Front Mount	One per unit
Auxiliary Switch Units (Left Hand Side)				
83361941004	LX	2 NO	Left Hand Side	
83361941005	LX	1 NO / 1NC	Left Hand Side	
83361941006	LX	2 NC	Left Hand Side	
Alarm Contact Units				
83011941005	LAM - Magnetic Trip Alarm Switch	1 NO / 1NC	Left Hand Side	Set LAM first in case of using LX together
83011941002	LA - Any Trip Alarm Switch	1 NO / 1NC	Left Hand Side	MMS-63 can not accept LX and LA together



MMS to Contactor Linking Bars



Jumper Bars for MMS



Handles



Enclosures

Item No	Type	Description
MMS to Contactor Linking Bars		
73311941003	MINI AC DA-16HA	32H MMS and Mini Contactor (for AC coil)
73311941004	MINI AC DA-16HD	32H MMS and Mini Contactor (for DC coil)
73311634052	AC DA-18HA	32H MMS and 18AF Contactor (for AC coil)
73311634054	DC DA-18HD	32H MMS and 18AF Contactor (for DC coil)
73311634056	AC DA-22HA	32H MMS and 22AF Contactor (for AC coil)
73311634058	DC DA-22HD	32H MMS and 22AF Contactor (for DC coil)
73311634002	AC DA-32HA	32H MMS and 40AF Contactor (for AC coil)
73311634004	DC DA-32HD	32H MMS and 40AF Contactor (for DC coil)
73311634005	AC DA-63A	63H MMS and 65AF Contactor (for AC coil)
Jumper Bars for MMS		
70211941201	PB-322	Link Busbar 2 x 32H MMS unit
70211941301	PB-323	Link Busbar 3 x 32H MMS unit
70211941340	PB-324	Link Busbar 4 x 32H MMS unit
70211941350	PB-325	Link Busbar 5 x 32H MMS unit
62671941001	LTB-32	Main Feed Terminal 65A
Handles		
83111912004		Handle for 32H, 315mm Shaft
83111912005		Handle for 63H, 315mm Shaft
Enclosures		
53911941001		IP65 Enclosure for 32H

LS Contactors

MAGNETIC CONTACTORS

#88

EXPRESS




18AF



22AF



40AF



65AF



100AF



150AF



225AF



400AF

415V		Coil Voltages						
Type	Auxiliary	kW	HP	AC-3	24Vdc	24Vac	240Vac	400Vac
Frame Size 18AF (73.5mm x 45mm)								
MC-6a	1 N/O	3	5	6A	1327100300	1327001600	1327002400	1327001100
MC-9a	1 N/O	4	5	9A	1316005300	1316001600	1316002400	1316001100
MC-12a	1 N/O	5.5	7.5	12A	1317005300	1317001600	1317002400	1317001100
MC-18a	1 N/O	7.5	10	18A	1328100300	1328001600	1328002400	1328001100
Frame Size 22AF (73.5mm x 45mm)								
MC-22b	1 N/O + 1 N/C	11	15	22A	1347100300	1347000100	1347000800	1347001100
Frame Size 40AF (83mm x 45mm)								
MC-32a		15	20	32A	1336005300	1336000100	1336000800	
MC-40a		18.5	30	40A	1337005300	1337000100	1337000800	
Frame Size 65AF (106mm x 55mm)								
MC-50a		22	40	50A			1380000500	
MC-65a		30	50	65A	1381004800		1381000600	
Frame Size 100AF (140mm x 70mm)								
MC-75a		37	50	75A			1382001000	
MC-100a		55	75	105A	1384011900			
Frame Size 150AF (158mm x 95mm)								
MC-130a		60	75	130A			1385000100	
MC-150a		75	100	150A			1386000100	
Frame Size 225AF (203mm x 138mm)								
MC-225a	2 N/O + 2 N/C	132	150	225A			1368000200	
Frame Size 400AF (243mm x 163mm)								
MC-400a	2 N/O + 2 N/C	200	300	400A			1371000200	

ecs

CONTACTORS

LS Contactor Overloads

OVERLOADS 18AF SIZE CONTACTORS

#89



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Item No	Conductor Size	Min	Max	Suitable Contactor Frames
1323000500	1mm ²	0.63A	1A	MC-6a, 9a, 12a & 18a
1323000600	1mm ²	1A	1.6A	MC-6a, 9a, 12a & 18a
1323000700	1mm ²	1.6A	2.5A	MC-6a, 9a, 12a & 18a
1323000800	1mm ²	2.5A	4A	MC-6a, 9a, 12a & 18a
1323000900	1mm ²	4A	6A	MC-6a, 9a, 12a & 18a
1323001000	1mm ²	5A	8A	MC-6a, 9a, 12a & 18a
1323001100	1.5mm ²	6A	9A	MC-6a, 9a, 12a & 18a
1323001200	1.5mm ²	7A	10A	MC-6a, 9a, 12a & 18a
1323001300	2.5mm ²	9A	13A	MC-6a, 9a, 12a & 18a
1323002700	2.5mm ²	12A	18A	MC-6a, 9a, 12a & 18a



LS Mounting Kit for Contactor Overloads

MOUNTING KIT FOR CONTACTOR OVERLOADS

#89



SEARCH ON EXPRESS.ECSNZ.COM

Features

- » Allows overload to be mounted next to contactor
- » Easy to assemble

Item No	Type	Description
83661834001	UZ-12	Mounting Kit for above overloads



LS Capacitor Units

FOR POWER FACTOR CORRECTION APPLICATIONS

#91



SEARCH ON EXPRESS.ECSNZ.COM

Features

- » Eliminate switching surge
- » Improves performance of capacitor system
- » Damping resistor limits inrush current

Item No	Type	Suitable Contactors
83631611001	AC-9	MC-9a to MC-40a
83631613004	AC-50	MC-50a to MC-100a

Configuration	400-440V
MC-9b with AC-9	9.7kVar - 14A
MC-12b with AC-9	12.5kVar - 18A
MC-18b with AC-9	16.7kVar - 24A
MC-22b with AC-9	18kVar - 26A
MC-32a with AC-9	25kVar - 36A
MC-40a with AC-9	33.3kVar - 48A
MC-50a with AC-50	40kVar - 58A
MC-65a with AC-50	45.7kVar - 66A
MC-75a with AC-50	54kVar - 92A
MC-85a with AC-50	60kVar - 87A
MC-100a with AC-50	62kVar - 106A



LS Contactor Reversing Interlocks

USED FOR MECHANICAL INTERLOCKING

#91



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Interlock Terminal

UR-02 interlock is a mechanical interlock unit and provides 2NC contacts for use in electrical interlocking.

Jumper Bars

UW jumper bars are used for making reversing circuit between two contactors.

Item No	Type	Description
76671635003	UW-18	Jumper Bar Kit for MC-6a, 9a, 12a & 18a
83411634001	UR-02	Interlock Terminal



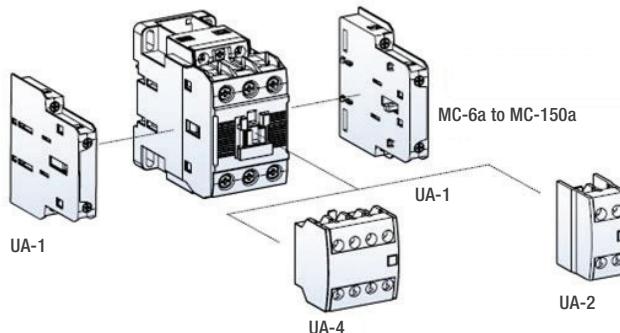
LS Contactor Auxiliaries

FRONT & SIDE MOUNT

#90



SEARCH ON EXPRESS.ECSNZ.COM



Features

- » Allows overload to be mounted next to contactor

Item No	Type	Mounting	Contacts
83361634001	UA-1	Side Mount	1 NO / 1 NC
83361634066	UA-2	Front Mount	1 NO / 1 NC
83361634048	UA-4	Front Mount	2 NO / 2 NC

LS Mini Contactors

SMALL MAGNETIC CONTACTORS

#87



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415V								
Type	Auxiliary	kW	AC-3	Coil Voltages				
				24Vdc	24Vac	240Vac	400Vac	
GMD-6M	1 N/O	2.2	6A	1270005200				
GMD-6M	1 N/C	2.2	6A	1270008000				
GMD-9M	1 N/O	4	9A	1270016400				
GMD-16M	1 N/O	7.5	16A	1270039200				
GMC-6M	1 N/C	2.2	6A		1269002100	1269055500	1269003600	
GMC-16M	1 N/O	7.5	16A		1269026800	1269039600		
GMC-16M	1 N/C	7.5	16A			1269039800		

LS Mini Contactor GT12 Overloads

GT12 OVERLOADS FOR MINI CONTACTORS

#93



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Item No	Type	Min	Max
1271003100	GTK-12M 0.33A	0.25	0.4
1271003200	GTK-12M 0.52A	0.4	0.63
1271003300	GTK-12M 0.82A	0.63	1
1271003400	GTK-12M 1.3A	1	1.6
1271003500	GTK-12M 2.1A	1.6	2.5
1271003600	GTK-12M 3.3A	2.5	4
1271003700	GTK-12M 5A	4	6
1271003900	GTK-12M 7.5A	6	9
1271004100	GTK-12M 11A	9	13
1271004200	GTK-12M 14A	12	16

LS Overload Mounting Unit

MOUNTING KIT FOR MINI CONTACTOR OVERLOADS

#93



Item No	Type
83661821002	AZ-12MH

LS Mini Contactor Auxiliaries

#92

FRONT & SIDE MOUNT



Item No	Type	Mounting	Contacts
83361621001	AU-1M	Side	1 NO
83361621009	AU-2M	Front	1 NO / 1 NC
83361621005	AU-4M	Front	2 NO / 2 NC

AR-12M Interlock

INTERLOCK KIT FOR MINI CONTACTORS

#94



Item No	Type
83411621001	AR-12M
83411621007	AR-12MW (with wiring)

Surge Absorber Unit

#94

SURGE UNIT TO REDUCE STARTUP LOAD ON COIL



Item No	Type
83611621004	AS-12M

SCHLEGEL Push-Button Heads

STANDARD & ILLUMINATED SWITCHBOARD PUSH BUTTON HEADS

#1579



SEARCH ON EXPRESS.ECSNZ.COM

Features

- » Standard 22mm Hole Size
- » Includes Locknut
- » Labelling option available

Specifications

- » Panel cut-out: Ø 22.3 mm
- » Travel: 6 mm
- » Front bezel: metallic/charcoal

Protection

- » IP65
- » IP67* (SCH-RMCTM Only)
- » Class: II (protective insulation)

Applications

- » Control circuits
- » Machine Control

STANDARD (#1580)

ILLUMINATED (#1581)

	Momentary	Maintained	Momentary	Maintained
Blue	RMCT-GBL	RMCF-GBL	RMCT-BL	RMCF-BL
Yellow	RMCT-GGB	RMCF-GGB	RMCT-GB	RMCF-GB
Green	RMCT-GGN	RMCF-GGN	RMCT-GN	RMCF-GN
Red	RMCT-GRT	RMCF-GRT	RMCT-RT	RMCF-RT
Black	RMCT-GSW	RMCF-GSW		
White	RMCT-GWS		RMCT-WS	RMCF-WS
Clear			RMCT-KL	RMCF-KL
Extras	Waterproof Pushbutton including transparent silicone cap (IP67)			RMCTM
Clear				



Standard

Illuminated

Waterproof

SCHLEGEL LED Indicators

230V & 24V LED INDICATORS

#1587



Features

- » Standard 22mm Hole Size
- » Suitable for up to 2.5mm conductors

Specifications (230V Lamp Module)

- » Operating temperature: -25...70 C
- » Protection degree acc. to IEC/EN 60529: IP65
- » Approvals: cCSAus, CE, GOST-R

Protection

- » IP65

MODULAR

MONO

	24V	230V	24V	230V
Blue	RMCN-24-BL	RMCN-230-BL		
Yellow	RMCN-24-GB	RMCN-230-GB	RGLED24V_Y	RGLED230V_Y
Green	RMCN-24-GN	RMCN-230-GN	RGLED24V_G	RGLED230V_G
Red	RMCN-24-RT	RMCN-230-RT	RGLED24V_R	RGLED230V_R
White	RMCT-GWS	RMCN-230-VS		
Clear	RMCN-24-WS	RMCN-230-KL		



Mono

Modular

SCHLEGEL Selector Switches

MOMENTARY & MAINTAINED MONO SELECTOR SWITCHES

#1582



Function

- » Left position, contact 1 is closed, contact 2 is open
- » Middle position, both contact 1 and contact 2 are open
- » Right position, contact 1 is open, contact 2 is closed

Specifications

- » Standard 22mm Hole Size
- » Includes Locknut

Protection

- » IP65

Item No

Positions

Mechanism

Selector Only			
RMCWA	2	Left / Right	Standard Dial
RMCWB	3	Left / Middle / Right	Standard Dial
RMCWC	3	Left / Middle / Right (Spring Return)	Standard Dial
RCMSTB	3	Left (Spring Return) / Middle / Right (Spring Return)	Standard Dial
RMCWAL	2	Left / Right	Illuminated Dial
RMCWBL	3	Left / Middle / Right	Illuminated Dial
RMCWCL	3	Left / Middle / Right (Spring Return)	Illuminated Dial
RMCK	2	Up / Down	Toggle Head
Selector with Contacts			
RMCWA-MTI	2	Selector Switch 2 Position Complete	Standard Dial
RMCWB-MTI-MTO	3	Selector Switch 3 Position Complete	Standard Dial
RMCSSA18E-MTI	2	Key Switch 2 Position Complete	Keyed
RMCSSA12E-MTI-MTO	3	Key Switch 3 Position Complete	Keyed
Accessories			
ESE845		Standard spare key, specify key number for special locks	



Selector

Toggle Selector



With Contacts



Keyed with Contacts

SCHLEGEL Buzzers

WARNING BUZZER 24V

#1584



Features

- » Loud annoying siren sound
- » Screw Terminals for each connection
- » Designed for more than > 5000h of active usage

Specifications

- » Operating Voltage: 18-30V AC or DC
- » Volume: 80dB
- » IP65

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SCHLEGEL Stop Buttons

LATCHING & MOMENTARY STOP BUTTONS

Features

- » When mushroom head is out, contact 1 is closed
- » When mushroom is pressed, contact 1 is open
- » Includes 1 N/C Contact (MTO)

Specifications

- » IP65
- » Standard 22mm Hole Size
- » Includes Locknut

Item No	Description	Mechanism
Modular		
RMCV-MTO	Stop Button - Latching	Standard Dial
RMCS-MTO	Stop Button - Momentary	Standard Dial

#1589
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SCHLEGEL RJ45 and USB

RJ45 & USB PANEL MOUNT BUTTONS WITH COVER

Features

- » Standard 22mm Hole Size
- » Includes Locknut
- » Dust Cover

Specifications

- » Series: RONTRON-R-JUWEL
- » Panel cut-out: Ø 22.3 mm
- » Front bezel: silver-coloured

Item No	Outside	Inside	IP Closed
RJ45			
RRJ_RJ45_WC	RJ45	RJ45	IP67
USB			
RRJ_USB_AB_WC	USB Type A	USB Type B	IP67
RRJ_USB_WC	USB Type A	USB Type A Male + 60cm Cable	IP67

#1583
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SCHLEGEL Labels

LABEL FOR 22MM PUSHBUTTONS

Item No	Label
Printed	
BZ23L_0206	Down
BZ23L_0129	Fault
BZ23L_0211	Forward
BZ23B6003	Hand O Auto
BZ23B6004	O I
BZ23L_0204	Off
BZ23L_0203	On
BZ23L_0226	Reset
BZ23L_0212	Reverse
BZ23L_0095	Run
BZ23L_0201	Start
BZ23L_0202	Stop
BZ23L_0205	Up

Item No	Label
Accessories	
RABT	Label Holder for 22mm Pushbuttons
BZ23U	Blank Label for 22mm Pushbuttons



SCHLEGEL Contact Blocks

MODULAR CONTACT BLOCKS, LED'S & HOLDERS FOR 22MM PUSHBUTTONS

#1588
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Item No	Description	Type
Holder		
MHR_3	Module holder for 3 elements	3 Slot
MHR_5	Module holder for 5 elements	5 Slot
Contact NC		
MTO	Normally Closed Contact Block	Standard
MTON	Normally Closed Contact Block	Late Break
Contact NO		
MTI	Normally Open Contact Block	Standard
MTIV	Normally Open Contact Block	Early Make
Latching		
MF	Module	Latching
LED Modules		
MLED230B	LED Module - Blue	230V
MLED230Y	LED Module - Yellow	230V
MLED230G	LED Module - Green	230V
MLED230R	LED Module - Red	230V
MLED230W	LED Module - White	230V
MLED24B	LED Module - Blue	24V
MLED24Y	LED Module - Yellow	24V
MLED24G	LED Module - Green	24V
MLED24R	LED Module - Red	24V
MLED24W	LED Module - White	24V



Multi-Function Timer

- » Universal timer with multiple functions for different applications.
- » 8 Timer Functions
- » Time ranges from 0.05 seconds to 1200 hours
- » Supply Voltage: 24v to 240v AC/DC
- » Switching Output: Up to 240V / 5A each
- » Dimensions: 22.5 x 89.4 x 100 mm



Multi-Function



Twin Timer

Twin Timer

- » On/Off timer with two inputs to set different high and low times.
- » Time ranges from 0.1 seconds to 100 hours
- » Supply Voltage: 24v to 240v AC/DC
- » Switching Output: Up to 240V / 5A each

Item No	Trigger Voltage	Number of Outputs	Switching Current	Switching Voltage	Connection Type
Multi-Function					
81.020.0002.0	24 - 240 ac/dc	1	5A	250V	Screw
81.020.0003.0	24 - 240 ac/dc	2	5A	250V	Screw
Twin Timer					
81.020.0011.0	24 - 240 ac/dc	1	5A	250V	Screw

Wieland Relays

FLARE CHANGE-OVER RELAYS

Compact Series

- » An extremely compact relay allowing you to fit twice as many relays in the same space.
- » Space Saving (only 6.2mm wide)
- » Suitable for AC or DC
- » LED Indication



Compact



Heavy Duty



Solid State

Heavy Duty Series

- » Suitable for more demanding switching applications with higher switching loads. The 24Vdc version has a manual trigger button which allows you to switch the output manually. A great tool for fault finding.
- » Manual force hold-on button (on 24V version)
- » DC Polarity Protected
- » LED Indication

Solid State Series

Designed for high speed switching applications. Because there are no moving parts this means they can switch faster and for a longer period of time.

Item No	Trigger Voltage	Switching Current	Switching Voltage	Width (mm)	Connection Type
Compact					
80.010.4521.0	12V ac/dc	6A	250V	6.2	Screw
80.010.4522.0	24V ac/dc	6A	250V	6.2	Screw
80.010.4526.0	240Vac	6A	250V	6.2	Screw
80.063.4029.1	20 Pole Common Jumper				
Heavy Duty					
80.010.5501.2	12Vdc	2 x 8A	250V	15.8	Screw
80.010.4912.3	24Vac	16A	250V	15.8	Screw
80.010.6102.2	24Vdc	16A	250V	15.8	Spring Clamp
80.010.6002.2	24Vdc	16A	250V	15.8	Screw
80.010.6032.2	24Vdc	2 x 8A	250V	15.8	Screw
80.010.5702.2	24Vdc	4 x 7A	250V	27	Screw
80.010.4916.3	240Vac	16A	250V	15.8	Screw
80.010.5316.2	240Vac	2 x 8A	250V	15.8	Screw
80.063.5029.2	8 Pole Common Jumper				
Solid State					
80.020.4100.0	10..53 Vdc	0.5A (500 Hz)	4.4...53 Vdc	6.2	Spring Clamp
80.020.4101.0	10..53 Vdc	2A (5 Hz)	4.4...53 Vdc	6.2	Spring Clamp

Wieland Mini Single Phase Power Supplies

DIN-RAIL MOUNTED MINIATURE POWER SUPPLIES

#96



SEARCH ON EXPRESS.ECSNZ.COM

Features

- » DIN Rail Mounting
- » Plastic Housing
- » Adjustable DC output
- » Short circuit proof

Item No	Vdc	Current (A)	Dimensions (WxHxD)	Input (V)	Watt
81.000.6331.0	5	3	35 x 91 x 57	110 / 240	15
81.000.6310.0	24	1	35 x 91 x 57	110 / 240	15



Wieland Power Supplies

DIN-RAIL MOUNTED POWER SUPPLIES

#96



SEARCH ON EXPRESS.ECSNZ.COM

Features

- » DIN Rail Mounting
- » Robust Metal Construction
- » Adjustable DC output
- » Alarm Relay Output

Parallel Operation

Many of the Wieland Power supplies allow for parallel mode. This increases the Current by sharing the load between multiple power supplies.



Item No	Vdc	Current (A)	Single Phase		Three Phase	
			Parallel Mode	Dimensions (WxHxD)	Input (V)	Watt
Single Phase						
81.000.6331.0	5	3		35 x 91 x 57	110 / 240	15
81.000.6132.0	12	5		41 x 91 x 115	110 / 240	60
81.000.6142.0	12	10	Up to 3	63.2 x 123.6 x 123	110 / 240	120
81.000.6110.0	24	1.25		44 x 89 x 114	110 / 240	35
81.000.6120.0	24	2.5		44 x 89 x 114	110 / 240	70
81.000.6130.0	24	5	Up to 3	63 x 124 x 124	110 / 240	142.5
81.000.6140.0	24	10	Up to 3	83 x 124 x 124	110 / 240	285
81.000.6150.0	24	20	Up to 3	175 x 124 x 124	110 / 240	570
81.000.6134.0	48	5	Up to 3	175 x 124 x 124	110 / 240	480
Three Phase						
81.000.6160.0	24	5	Up to 2	75 x 124 x 118	340 - 575	240
81.000.6170.0	24	10	Up to 2	89 x 124 x 118	340 - 575	240
81.000.6180.0	24	20	Up to 2	150 x 124 x 118	340 - 575	480
81.000.6190.0	24	40	Up to 2	276 x 126 x 112	340 - 575	960

Wieland UPS

UNINTERRUPTIBLE POWER SUPPLY FOR CRITICAL APPLICATIONS

#96



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Features

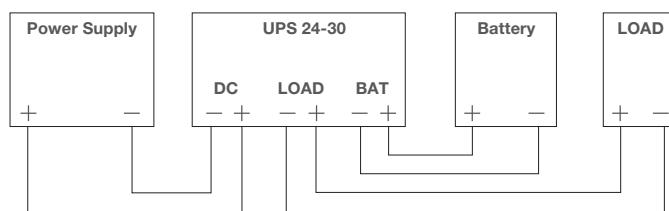
- » Suitable for Lead-Acid and Lead-Gel Batteries
- » Suitable for up to 30A
- » Charges and monitors the battery condition
- » Alarm output for battery failure
- » Alarm output for battery discharging (primary power lost)
- » LED indication for module status

Description

Wieland UPS provides instantaneous protection from input power interruption. The UPS module charges and maintains the battery charge. The module also monitors the status of the battery and has a relay output if the battery fails. This module is suitable for all common Lead-Acid and Lead-Gel batteries.



Item No	Vdc	Current (A)	Dimensions (WxHxD)	Input (V)
81.000.6220.0	24	30	54 x 90 x 115	2 x 24



State	LED (• = on)		
	BAT FAIL (red)	BAT DIS. (yellow)	DC IN OK (green)
Battery disconnected or fuse blown	•		•
Inverse polarity of battery, or overcharge protection active	•		•
Battery charging			•
VIN < 22.5 V, battery discharging		•	
VIN < 22.5 V, battery discharge voltage < 20.5 V	•	•	
VIN < 22.5 V, VBAT ≤ 19.2 V		•	
DC IN OK, 19.2 V ≤ VBAT ≤ 20.5 V	•		•

Wieland R20 Redundancy Module

DIN-RAIL MOUNTED REDUNDANCY MODULE WIPOS R20

#96



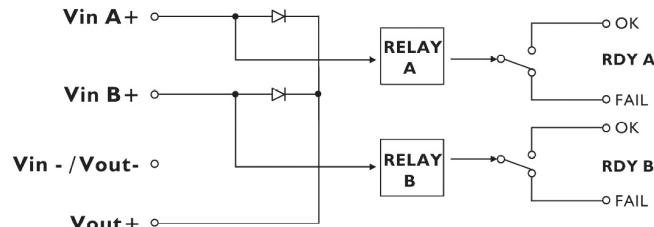
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Features

- » Redundancy module for two inputs
- » Inputs: 21 – 28 V DC
- » Rated current 20 A
- » Relay control output for every input
- » Vertical mount

Application

This redundancy unit is used in critical applications. Two power supplies are wired into this unit, and if one fails an alarm is triggered.



Item No	Vdc	Current (A)	Dimensions (WxHxD)	Input Range(V)
Single Phase				
81.000.6200.0	24	20	54 x 90 x 114	21 to 28

Wieland Power Supplies - Slimline

DIN-RAIL MOUNTED SWITCHED-MODE SLIMLINE POWER SUPPLY

#96



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Features

- » Primary switching power supply, single phase
- » Output: 24 V DC (adjustable 21.6 - 27.6 V DC)
- » Input: 85 - 264 V AC; 90 - 350 V DC
- » Parallel operation possible (2 devices)
- » Full load up to 60 °C
- » Temperature Rating -40 to 70 °C
- » Vertical mount
- » UL1310 class 2 power supply

Application

New Slimline series power supplies offer a significant space saving over the standard Wieland power supply range. These are ideal for applications where space is at a premium.



Standard vs Slimline



Item No	Vdc	Current (A)	Dimensions (WxHxD)	Input (V)
Single Phase				
81.000.6510.0	24Vdc	1.25A	32 x 90 x 90	230V
81.000.6520.0	24Vdc	2.5A	32 x 90 x 110	230V
81.000.6530.0	24Vdc	5A	40 x 125 x 122	230V
81.000.6540.0	24Vdc	10A	60 x 125 x 140	230V
81.000.6550.0	24Vdc	20A	95 x 125 x 150	230V
Three Phase				
81.000.6560.0	24Vdc	5A	40 x 125 x 122.2	400V
81.000.6570.0	24Vdc	10A	60 x 125 x 150	400V

Wieland Fuse Holder Inserts, Bases & Plates

FOR ISOLATION AND PROTECTION OF CIRCUITS

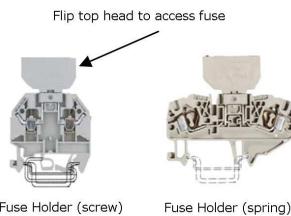
#1376 & #1381



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Description

Fuse terminals with rocking head for disconnection. Takes standard 5x20mm glass fuses. 6.3mm x 32mm also on request.



Fuse Holder (screw)



Fuse Holder (spring)

Conductor Sizes

- » Stranded: 0.13mm² to 4mm²
- » Solid: 0.13mm² to 6mm²
- Available in both Spring Clamp and Screw terminal options.

Features

- Fuse insert can be pulled out and removed making it easy to check fuses.

Current Rating

- » Dependant on fuse

Item No

Type

Series

Clamp

Bases

56.704.4055.0	Fuse Terminal Base	WKFN 4 TKG/35	Spring
57.504.4055.0	Fuse Terminal Base	WK 4 TKG/U /V0	Screw

End Plates

07.312.9055.0	Grey End Plate	APFN 4 D2/2	Spring
07.311.6155.0	Grey End Plate	AP 4 TK /V0	Screw

Inserts (5 x 20mm)

Z1.298.1053.0	No LED Indication	THSI 5X20	
Z1.298.1153.0	12-24V LED Indication	THSI 5X20LED 24	
Z1.298.1253.0	24-60V LED Indication	THSI 5X20LED 60	
Z1.298.1353.0	110-250V LED Indication	THSI 5X20GL 250	

Wieland Fuse Holder Terminals

FOR ISOLATION AND PROTECTION OF CIRCUITS

#281



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Description

Fuse terminal block for standard glass fuses. Takes standard 5x20mm or 6.3x32mm glass fuses. Available in Screw Terminal only.



Conductor Sizes

- » Stranded: 0.13mm² to 4mm²
- » Solid: 0.13mm² to 6mm²

Features

- Fully enclosed so it does not require an extra end plate. As it is all one piece, this makes it the strongest and most robust fuse holder in the range.

Current Rating

- » Dependant on fuse

Item No

Type

Series

Clamp

for (5 x 20mm, 5 x 25mm and 5 x 30mm)

57.904.5355.0	No LED Indication	WK 4 / THSI5 U/V0	Screw
57.904.5555.0	24V LED Indication	WK 4/THSI5 LED 24U /V0	Screw
Z7.255.8627.0	Cross connector	WKN 6 TK-6	

for (6.3 x 32mm)

57.904.6355.0	No LED Indication	WK 4/THSI6,3 U /V0
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Wieland Automotive Fuse Terminals

FOR ISOLATION AND PROTECTION OF CIRCUITS

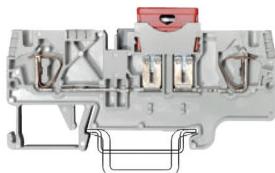
#1377



SEARCH ON EXPRESS.ECSNZ.COM

Description

Fuse terminal block for automotive fuses. This block takes the larger style ATO type automotive fuse.



Conductor Sizes

- » Stranded: 0.13mm² to 4mm²
- » Solid: 0.13mm² to 6mm²
- Available in Spring Clamp only

Features

- » LED indication which is very useful when fault finding.

Current Rating

- » Dependant on fuse

Item No

Type

Series

Clamp

Terminal

56.704.4155.0	No LED Indication	WKFN 4 FSI	Spring
56.704.4255.0	12Vdc LED Indication	WKFN 4 FSI LED 12	Spring
56.704.5355.0	24Vdc LED Indication	WKFN 4 FSI LED 24	Spring

End Plate

07.312.9055.0	Grey End Plate	APFN 4 D2/2
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Wieland Resettable Blade Fuse

MINIATURE CIRCUIT BREAKER

#1377



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Description

Miniature circuit breaker that fits into a standard automotive blade fuse holder. These units can be manually turned off and on via the button located at the top and have built in over current protection.

Item No

Current Rating

Voltage

1180-01-2.5A	2.5A	Up to 250V	55mm
1180-01-4A	4A	Up to 250V	55mm



Wieland Knife Disconnects

FOR ISOLATION AND PROTECTION OF CIRCUITS

#277 & #282



SEARCH ON EXPRESS.ECSNZ.COM



Description

These disconnect terminals are used to isolate circuits for testing purposes.

Conductor Sizes

- » Stranded: 0.13mm² to 4mm²
- » Solid: 0.13mm² to 6mm²

Features

- » Available in both Spring Clamp and Screw terminal options.

Current Rating

- » 20A

Item No

Type

Series

Clamp

Terminal

56.704.2053.0	Disconnect Terminal	WKF 4 TKM / 35	Spring
57.504.2055.0	Disconnect Terminal	WK 4 TKM/U /V0	Screw

End Plate

07.312.4353.0	Grey End Plate	APF 4 TK	Spring
07.311.6155.0	Grey End Plate	AP 4 TK /V0	Screw



Wieland Spring Terminals

SPRING CLAMP TERMINALS

#274



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Type	2 Pole	3 Pole	4 Pole	4 Pole - Double/Deck	6 Pole - Triple/Deck
	WKFN 2.5/35	WKFN 2.5 D1/2/35	WKFN 2.5 D2/2/35	WKFN 2.5 E/35	WKFN 2.5 E3/35
Grey Terminal	56.703.0055.0	56.703.5055.0	56.703.5155.0	56.703.7055.0	56.703.3055.0
Grey End Plate	07.312.6755.0	07.312.6955.0	07.312.7155.0	07.312.7355.0	07.312.7555.0
Blue Terminal	56.703.0055.6	56.703.5055.6	56.703.5155.6		
Earth Terminal	56.703.9055.0	56.703.9355.0	56.703.9155.0	56.703.8955.0	56.703.8855.0
Earth End Plate	07.312.6755.7	07.312.6955.7	07.312.7155.7	07.312.7355.7	07.312.7555.7
Vertical Jumper				Z7.261.1127.0	Z7.261.1127.0
	WKFN 4/35	WKFN 4 D1/2/35	WKFN 4 D2/2/35	WKFN 4 E/35	
Grey Terminal	56.704.0055.0	56.704.5055.0	56.704.5155.0	56.704.7055.0	
Grey End Plate	07.312.9255.0	07.312.9455.0	07.312.9055.0	07.312.9655.0	
Blue Terminal	56.704.0055.6	56.704.5055.6	56.704.5155.6		
Earth Terminal	56.704.9055.0	56.704.9355.0	56.704.9155.0		
Earth End Plate	07.312.9255.7	07.312.9455.7	07.312.9055.7		
Vertical Jumper				Z7.261.1127.0	
	WKFN 6/35	WKFN 6 D1/2/35			
Grey Terminal	56.706.0055.0	56.706.5055.0			
Grey End Plate	07.313.0455.0	07.313.0655.0			
Earth Terminal	56.706.9055.0				
Earth End Plate					
	WKFN 10/35	WKFN 10 D1/2/35			
Grey Terminal	56.710.0055.0	56.710.5055.0			
Grey End Plate	07.313.0855.0	07.313.0855.0			
Earth Terminal	56.710.9055.0				
Earth End Plate					

Wieland DIN Rail Terminal - Jumper Options

FOR SCREW AND SPRING CLAMP TERMINALS

#111



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Type	2.5mm	4mm	6mm	10mm	16mm
2 Way	Z7.280.6227.0	Z7.261.1227.0	Z7.282.5227.0	Z7.283.8227.0	Z7.284.4227.0
3 Way	Z7.280.6327.0	Z7.261.1327.0	Z7.282.5327.0		
4 Way	Z7.280.6427.0	Z7.261.1427.0	Z7.282.5427.0		
5 Way	Z7.280.6527.0	Z7.261.1527.0	Z7.282.5527.0		
10 Way	Z7.280.7027.0	Z7.261.2027.0			



Wieland Screw Terminals

2 POLE SCREW TERMINALS

#279



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Type	2.5mm	4mm	6mm	10mm	16mm	35mm	70mm
	WT 2,5	WT 4	WT 6	WT 10	WT 16	WKN 35/U	WKN 70/U
Grey Terminal	58.503.0055.0	58.504.0055.0	58.506.0055.0	58.510.0055.0	58.516.0055.0	57.535.0155.0	57.570.0155.0
Grey End Plate	07.313.2555.0	07.313.2555.0	07.313.2555.0	07.313.2555.0	07.313.2755.0	Fully Enclosed	Fully Enclosed
Partition Plate	07.313.2655.0	07.313.2655.0	07.313.2655.0	07.313.2655.0			
Blue Terminal	58.503.0055.6	58.504.0055.6	58.506.0055.6	58.510.0055.6	58.516.0055.6		
Earth Terminal	58.503.9055.0	58.504.9055.0	58.506.9055.0	58.510.9055.0	58.516.9055.0	57.535.9055.0	
Earth End Plate	07.313.2555.0	07.313.2555.0	07.313.2555.0	07.313.2555.0	07.313.2755.0		

Wieland Multi-tier Screw Terminals

DOUBLE & SINGLE DECK SCREW TERMINALS

#279

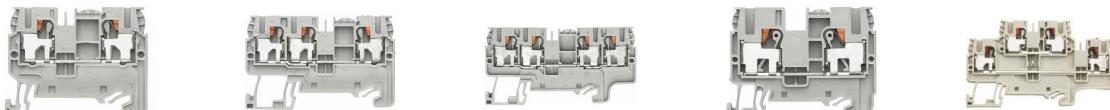


Type	Double Deck	Single Deck	Double Deck	Single Deck
	2.5mm 4 Pole (WKN 2,5 E/U)	4mm 4 Pole (WT 4 E)	4mm 3 Pole (WT 4 D1/2)	4mm 4 Pole (WT 4 D2/2)
Grey Terminal	57.403.7055.0	58.504.7055.0	58.504.5055.0	58.504.5155.0
Grey End Plate	07.312.1755.0	07.313.3355.0	07.313.2955.0	07.313.3155.0
Grey Partition Plate	07.312.1855.0	07.313.2855.0	07.313.2855.0	07.313.2855.0
Grey Top Deck Jumpers	Z7.280.2227.0	Z7.261.1227.0	Z7.261.1227.0	Z7.261.1227.0
Earth Terminal	58.504.9255.0	58.504.9355.0	58.504.9355.0	58.504.9155.0
Earth End Plate	07.313.3355.0	07.313.2955.0	07.313.3155.0	07.313.3155.0

Wieland Push Terminals

DIN RAIL TERMINAL BLOCKS WITH PUSH-IN CONNECTION

#116



Type	2.5mm Single Deck		6mm Single Deck		2.5mm Double Deck
	2 Pole (WTP 2,5/4)	3 Pole (WTP 2,5/4 D1/2)	4 Pole (WTP 2,5/4 D2/2)	2 Pole (WTP 6)	4 Pole (WTP 2,5/4 E)
Grey Terminal	56.203.0055.0	56.203.5055.0	56.203.5155.0	56.206.0055.0	56.203.7055.0
Grey End Plate	07.312.6755.0	07.312.6955.0	07.312.7155.0	07.313.4155.0	07.312.7355.0
Blue Terminal	56.203.0055.6	56.203.5055.6	56.203.5155.6	56.206.0055.6	
Earth Terminal	56.203.9055.0				
Earth End Plate	07.312.6755.0				

Wieland Motor Connection Terminal #116

UP TO 4MM CONDUCTORS

This is a small three phase distribution terminal. The three phases are passed through, the earth is linked to the DIN rail via the bottom row.



Type	WKF 4 3D/SL
Grey Terminal	56.704.8453.0
Grey End Plate	Fully Enclosed

Wieland Reduction Terminal #274

16MM DOWN TO 2.5MM/4MM

This terminal can take up to 16mm conductors. Using standard 2.5mm/4mm jumpers, you can link smaller terminals.



Type	WKF 16/35PV/WKFN
Grey Terminal	56.716.0353.0
Grey End Plate	Fully Enclosed



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Wieland Sensor Terminals

SPRING CLAMP TERMINALS

Details

Compact slice based connection system specially designed for 3-wire I/O, +, - and the shield are all common through the base block.

Advantages

No need for jumpers to common sensor power. Space saving compared to conventional multi-tier terminals

Conductor Sizes

- » 0.13mm² to 1.5mm²

Current Rating

- » 10A

Terminal Width

- » 5mm

Voltage Rating

- » 65V (sensor wiring)

Module Dimensions

- » (W)idth = 9 Module (9 x 5mm + 1.5mm)

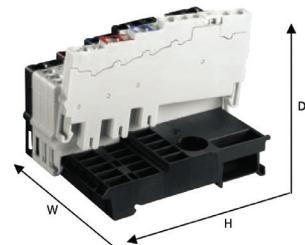
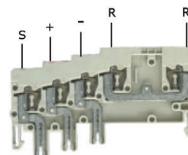
- = 18 Module (18 x 5mm + 1.5mm)

- » (H)eight = 71mm

- » (D)epth = 41mm (from top of DIN rail)

#1380

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Item No

Grey sensor modules

37.702.7453.0	Grey 3 level terminal (no 'S' terminal)
37.702.7553.0	Grey 4 level terminal
37.702.8553.0	Grey 4 level terminal with 24Vdc LED indication

Black Power Feed Modules

37.702.7753.0	Black Power Feed Terminal
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Backplane

69.700.0953.0	Base Block (8 IO Slots + 1 Power)
69.700.1853.0	Base Block (17 IO Slots + 1 Power)

Wieland Pluggable Terminals

SPRING CLAMP TERMINALS - PLUG AND PLAY

Details

Pluggable terminal range. A special range of terminals with connectors on one side, and spring terminals on the other.

Advantages

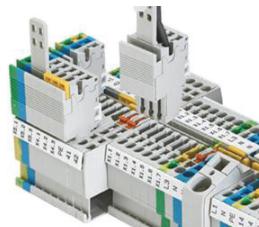
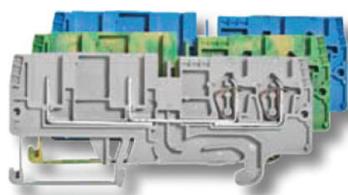
- » Fast error free terminations
- » Saves installation time on site

Terminal Size

- » 2.5mm Spring Type

#278

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Type	2 Terminals / 2 Connectors		Connector Parts			Cable Fixing
	WKFN 2,5 2P/2F	WKFN 2,5 E././/..	Left	Mid	Right	
Single Level		Double Deck				
Grey Terminal	56.703.2155.0	56.703.3455.0	Z1.110.8955.0	Z1.110.8855.0	Z1.110.9055.0	05.567.9155.0
Grey End Plate	07.313.0055.0	07.312.7155.0				
Earth Terminal	56.703.2255.0	56.703.3655.0	Z1.110.8955.7	Z1.110.8855.7	Z1.110.9055.7	05.567.9155.0
Earth End Plate	07.313.0055.0	07.312.7155.0				

Features

- » Compatible with both screw and spring clamp terminals
- » Low MOQ's - Comes as strips of 10 characters
- » 2.5mm size will also fit on 4mm terminals



Item No	Type
Number Sequences (2.5mm Terminals)	
04.242.5053.0	Blank
04.845.0153.0	1 to 10
04.845.0253.0	11 to 20
04.845.0353.0	21 to 30
04.845.0453.0	31 to 40
04.845.0553.0	41 to 50
04.845.0653.0	51 to 60
04.845.0753.0	61 to 70
04.845.0853.0	71 to 80
04.845.0953.0	81 to 90
04.845.1053.0	91 to 100
04.855.0853.0	L1, L2, L3, N, PE (x2)
Numbers Sequences (4mm Terminals)	
04.242.6053.0	Blank
04.846.0153.0	1 to 10
04.846.0253.0	11 to 20
04.846.0353.0	21 to 30
04.846.0453.0	31 to 40
04.846.0553.0	41 to 50
04.846.0653.0	51 to 60
04.846.0753.0	61 to 70
04.846.0853.0	71 to 80
04.846.0953.0	81 to 90
04.846.1053.0	91 to 100
04.856.0853.0	L1, L2, L3, N, PE (x2)

Item No	Type
Numbers	
04.841.1150.0	1 (x10)
04.841.1250.0	2 (x10)
04.841.1350.0	3 (x10)
04.841.1450.0	4 (x10)
04.841.1550.0	5 (x10)
04.841.1650.0	6 (x10)
04.841.1750.0	7 (x10)
04.841.1850.0	8 (x10)
04.841.1950.0	9 (x10)
04.841.2050.0	0 (x10)
04.841.7450.0	+
04.841.7550.0	- (X10)
Letters	
04.841.2250.0	A (x10)
04.841.2350.0	B (x10)
04.841.2450.0	C (x10)
04.841.2550.0	D (x10)
04.841.2650.0	E (x10)
04.841.2750.0	F (x10)
04.841.2850.0	G (x10)
04.841.2950.0	H (x10)
04.841.3050.0	I (x10)
04.841.3150.0	J (x10)
04.841.3250.0	K (x10)

Item No	Type
04.841.3350.0	L (x10)
04.841.3450.0	M (x10)
04.841.3550.0	N (x10)
04.841.3650.0	O (x10)
04.841.3750.0	P (x10)
04.841.3850.0	Q (x10)
04.841.3950.0	R (x10)
04.841.4050.0	S (x10)
04.841.4150.0	T (x10)
04.841.4250.0	U (x10)
04.841.4350.0	V (x10)
04.841.4450.0	W (x10)
04.841.4550.0	X (x10)
04.841.4650.0	Y (x10)
04.841.4750.0	Z (x10)

Wieland Terminal Accessories

DIN RAIL, END STOPS AND OPERATING TOOLS

#122



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End Clamps



Screwdriver

Item No	Type
End Clamps	
Z5.523.9353.0	End Clamp (snap-on)
Z5.522.8553.0	End Clamp (screw-on with metal foot)
69.920.1053.0	End Clamp (snap-on with label marker)
Screwdriver	
06.502.4000.0	Screwdriver for 2.5mm, 4mm and 6mm

Din Rail

RAILS & SUPPORT BRACKET

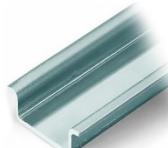
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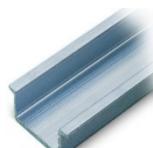
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98.300.1000.0



210-113



210-196



210-148

Item No	Type
Din Rail	
98.300.1001.0	Steel Din Rail 35x7.5mm, 1m length, slotted
98.300.1000.0	Steel Din Rail 35x7.5mm, 2m length, slotted
210-113	Steel Din Rail 35x7.5mm, 2m length, solid
210-196	Aluminum Din Rail 35x8.2mm, 2m length, silver coated for conductivity
Support Bracket	
210-148	Angled support bracket M5, without screw
210-149	Screw M5x8, for angled support bracket

WAGO Fuse Holder Terminals

FOR ISOLATION AND PROTECTION OF CIRCUITS

#2147



SEARCH ON EXPRESS.ECSNZ.COM

Description

Fuse terminal block for standard glass fuses. Takes standard 5x20mm glass fuses.

Conductor Sizes

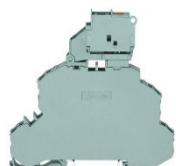
- » Conductor Range: 0.25mm² to 4mm²
- » Push-in termination: 0.75mm² to 4mm²

Features

- » Fully enclosed. 12 to 30V & 230V Blown indication options available.
- » Dual level incorporates an additional through terminal providing 50% space saving.

Current Rating

- » Dependant on fuse



Single Level Fuse Terminal

Item No	Type	Clamp
2002-1611	No LED Indication	Cage Clamp
2002-1611/1000-541	12 to 30 V LED Indication	Cage Clamp
2002-1611/1000-836	230V LED Indication	Cage Clamp

Dual Level Fuse Terminal

Item No	Type	Clamp
2002-2611	No LED Indication	Cage Clamp
2002-2611/1000-541	12 to 30 V LED Indication	Cage Clamp
2002-2611/1000-836	230V LED Indication	Cage Clamp

End Plates

2002-1091	Grey End Plate
2002-1092	Orange End Plate

Jumper Bars For Fuse Terminals

Item No	Type
2004-402	2-Way
2004-403	3-Way
2004-404	4-Way
2004-405	5-Way
2004-406	6-Way
2004-407	7-Way
2004-408	8-Way
2004-409	9-Way
2004-410	10-Way

WAGO Knife Disconnects

FOR ISOLATION AND PROTECTION OF CIRCUITS

#2148



Description

These disconnect terminals are used to isolate circuits for testing purposes.

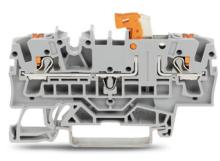
Conductor Sizes

- » Conductor Range: 0.25mm² to 4mm²
- » Push-in termination: 0.75mm² to 4mm²

Features

- Available in both Cage Clamp and Push button 16A terminal options

Current Rating



Terminal

2002-1671	Disconnect Terminal	Push-In Cage Clamp
2202-1671	Disconnect Terminal	Push-Button

End Plates

2002-1691	Grey End Plate
2002-1692	Orange End Plate

Jumper Bars For Knife Disconnect Terminals

Item No	Type
2002-402	2-Way
2002-403	3-Way
2002-404	4-Way
2002-405	5-Way
2002-406	6-Way
2002-407	7-Way
2002-408	8-Way
2002-409	9-Way
2002-410	10-Way

WAGO Terminals

CAGE CLAMP, PUSH BUTTON & LEVER TO PUSH BUTTON

#2114



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2.5mm Terminals												
Grey	2002-1201	2202-1201	2102-5201	2002-1301	2202-1301	2102-5301	2002-1401	2202-1401	2002-2201	2202-2701	2002-2401	2002-3201
Orange	2002-1202			2002-1302			2002-1402					
Blue	2002-1204	2202-1204	2102-5204	2002-1304	2202-1304	2102-5304	2002-1404	2202-1404	2002-2204	2202-2704	2002-2404	2002-3204
Earth	2002-1207	2202-1207	2102-5207	2002-1307	2202-1307	2102-5307	2002-1407	2202-1407	2002-2207	2202-2707	2002-2407	2002-3207
2.5mm End Plates												
Grey	2002-1291	2002-1291	2102-1291	2002-1391	2002-1391	2102-1391	2002-1491	2002-1491	2002-2291	2002-2791	2002-2491	2002-3291
Orange	2002-1292	2002-1292	2102-1292	2002-1392	2002-1392	2102-1392	2002-1492	2002-1492	2002-2292	2002-2792	2002-2492	2002-3292
2.5mm Separator Plates												
Grey	2002-1293	2002-1293	2002-1293	2002-1393	2002-1393	2002-1393	2002-1493	2002-1493				
Orange	2002-1294	2002-1294	2002-1294	2002-1394	2002-1394	2002-1394	2002-1494	2002-1494				
Vertical Jumper												
								2002-492	2002-492	2002-492	2002-492	
4mm Terminals												
Grey	2004-1201	2204-1201		2004-1301	2204-1301		2004-1401	2204-1401				
Orange	2004-1202			2004-1302			2004-1402					
Blue	2004-1204	2204-1204		2004-1304	2204-1304		2004-1404	2204-1404				
Earth	2004-1207	2204-1207		2004-1307	2204-1307		2004-1407	2204-1407				
4mm End Plates												
Grey	2004-1291	2004-1291		2004-1391	2004-1391		2004-1491	2004-1491				
Orange	2004-1292	2004-1292		2004-1392	2004-1392		2004-1492	2004-1492				
4mm Separator Plates												
Grey	2004-1293	2004-1293		2004-1393	2004-1393		2004-1493	2004-1493				
Orange	2004-1294	2004-1294		2004-1394	2004-1394		2004-1494	2004-1494				
6mm Terminals												
Grey	2006-1201	2206-1201	2106-5201	2006-1301	2206-1301	2106-5301						
Orange	2006-1202			2006-1302								
Blue	2006-1204	2206-1204	2106-5204	2006-1304	2206-1304	2106-5304						
Earth	2006-1207	2206-1207	2106-5207	2006-1307	2206-1307	2106-5307						
6mm End Plates												
Grey	2006-1291	2006-1291	2106-1291	2006-1391	2006-1391	2106-1391						
Orange	2006-1292	2006-1292	2106-1292	2006-1392	2006-1392	2106-1392						
6mm Separator Plates												
Grey	2006-1293	2006-1293	2006-1293	2006-1393	2006-1393	2006-1393						
Orange	2006-1294	2006-1294	2006-1294	2006-1394	2006-1394	2006-1394						
10mm Terminals												
Grey	2010-1201	2210-1201		2010-1301	2210-1301							
Orange	2010-1202			2010-1302								
Blue	2010-1204	2210-1204		2010-1304	2210-1304							
Earth	2010-1207	2210-1207		2010-1307	2210-1307							
10mm End Plates												
Grey	2010-1291	2010-1291		2010-1391	2010-1391							
Orange	2010-1292	2010-1292		2010-1392	2010-1392							
16mm Terminals												
Grey	2016-1201	2216-1201	2116-5201	2016-1301	2216-5301	2116-5301						
Orange	2016-1202			2016-1302								
Blue	2016-1204	2216-1204	2116-5204	2016-1304	2216-1304	2116-5304						
Earth	2016-1207	2216-1207	2116-5207	2016-1307	2216-1307	2116-5307						
16mm End Plates												
Grey	2016-1291	2016-1291	2116-1291	2016-1391	2016-1391	2116-1391						
Orange	2016-1292	2016-1292	2116-1292	2016-1392	2016-1392	2116-1392						

WAGO Standard Jumpers

FOR TOPJOB-S SERIES

#2122



2.5mm

4mm

6mm

10mm

16mm

2 Way

Adjacent Jumper

2002-400

2 Way

2002-402

2004-402

2006-402

2010-402

2016-402

3 Way

2002-403

2004-403

2006-403

2010-403

2016-403

4 Way

2002-404

2004-404

2006-404

2010-404

2016-404

5 Way

2002-405

2004-405

2006-405

2010-405

2016-405

6 Way

2002-406

2004-406

2006-406

2010-406

2016-406

7 Way

2002-407

2004-407

8 Way

2002-408

2004-408

9 Way

2002-409

2004-409

10 Way

2002-410

2004-410

WAGO Step Down Jumpers

FOR TOPJOB-S SERIES

#2123



Description

Step-down jumpers may common terminal blocks of different sizes, without loss

Features

A large conductor can be easily connected to smaller conductors at the distribution point. Additional through terminal blocks having a smaller cross-section may be commoned using push-in type jumper bars.

Item No

Type

Current Rating

2006-499 Commons 6/4mm² Down to 4/2.5/1.5mm² 32A

2016-499 Commons 16/10mm² Down to 10/6/4/2.5mm² 57A

285-430 Step down from 35mm terminal to 16mm/10mm 90A

Features

- » Quick and easy cable termination that offers a secure cable connection.
- » Vibration Proof, maintenance-free spring pressure connection technology

Termination

- » Open clamp by turning an Allen wrench counter-clockwise
- » Press the integrated latch open clamping unit for hands-free wiring
- » Insert the conductor
- » A small counter-clockwise rotation closes the clamp, securing conductor

Current Ratings 1000V/ 8kV/3

- » 35mm - 125A
- » 50mm - 150A
- » 95mm - 232A
- » 185mm - 353A



	35mm	50mm	50mm With Mounting Feet	95mm	95mm With Mounting Feet	185mm	185mm With Mounting Feet
Grey terminal	285-135	285-150	285-141	285-195	285-181	285-1185	285-1161
Blue terminal	285-134	285-154	285-144	285-194	285-184	285-1184	285-1164
Earth terminal	285-137	285-157		285-197		285-1187	
Warning Cover	285-420	285-440	285-440	285-170	285-170	285-1177	285-1177
Finger Guard	285-421	285-441	285-441	285-169	285-169	285-1178	285-1178
Adjacent Jumper	285-435	285-450	285-450	285-495	285-495	285-1171	285-1171

WAGO Power Tap

FOR POWER CAGE CLAMP TERMINALS

0800 849 2211
Freephone ECS Sales

Description

Can be fitted to Power Cage Clamp Terminals for additional potential connections.

Item No	285-427	285-447	285-407
Connection Points	35mm	50mm	95mm
Conductor Sizes	1 x 6mm	2 x 6mm	2 x 10mm
			2 x 10mm



WAGO Distribution Terminal Block

CAGE AND SCREW CLAMP CONNECTIONS

0800 849 2211
Freephone ECS Sales

Conductor Sizes

- » 1 x 6mm² to 35mm² - Screw Type
- » 3 x 0.2mm² to 10mm² - Cage-Clamp

Current Rating

- » 125A

Terminal Width

- » 17.5mm

Voltage Rating

- » 800V

Item No

Type

284-621	Grey
284-624	Blue
284-412	Adjacent Jumper



WAGO Disconnect Terminals

SUITABLE FOR CURRENT TRANSFORMER APPLICATIONS

0800 849 2211
Freephone ECS Sales

Description

Disconnect/Test Terminal
Blocks are designed for current transformer circuits. These blocks are ideal for safe and automatic short-circuiting, as well as easy measurement applications.

Features

- » Top-of-unit circuit jumper slot for shorting path activation
- » Open, shock-protected design indicates exact switching status



Item No

Type

Item No

Type

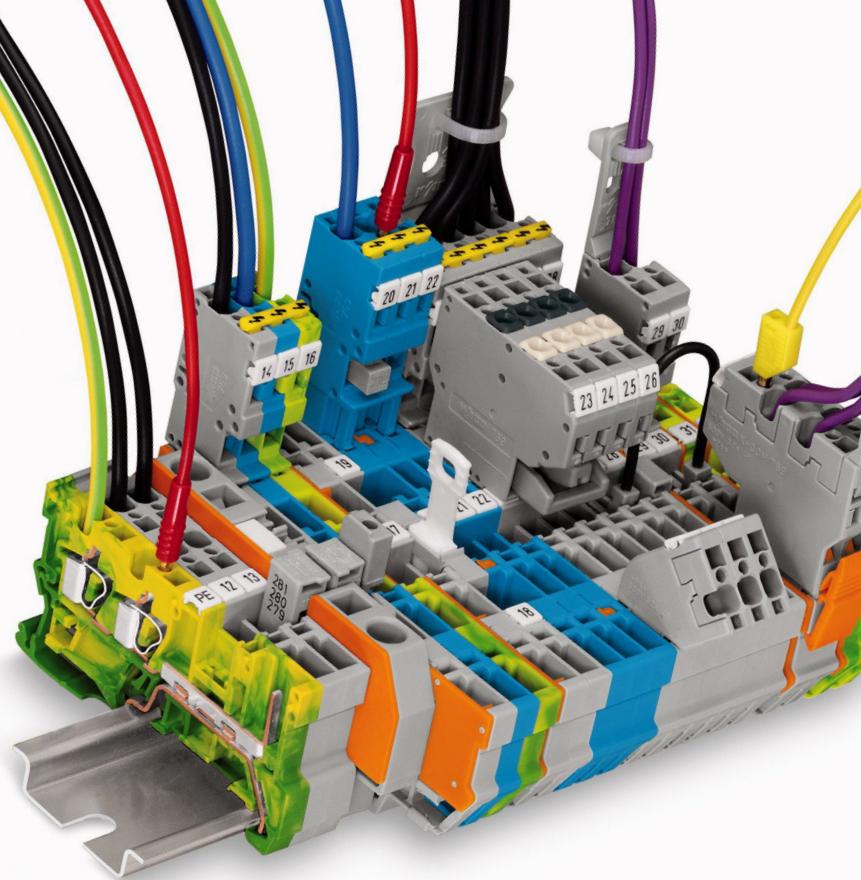
Item No	Type	Item No	Type
Sets		Individual	
2007-8876	Current Transformer Assembly	282-882	Locking cover; mechanically locks multiple links, 2-pole
2007-8873	Current & Voltage Transformer Assembly	282-884	Locking cover; mechanically locks multiple links, 4-pole
		2007-8442	Circuit jumper; insulated; 2-way
		2007-8807	2-conductor ground terminal block; with touch-proof test socket; for 4 mm Ø test plugs
		2007-8811	2-conductor disconnect/test terminal block; with touch-proof test sockets; for 4 mm Ø test plugs
		2007-8821	2-conductor disconnect/test terminal block; with receptacle for adjacent jumper with touch-proof test sockets; for 4 mm Ø test plugs
		2007-8892	End and separator plate; 1.5 mm thick; without lock-out seal option
			Jumper; insulated; 1-3-5



Populated Rails

**SAVE TIME AND LABOUR –
REDUCE SHELF STOCK,
AND SAVE ON YOUR LABEL
CONSUMABLES**

ECS can provide your WAGO terminals populated on a din rail, labelled and ready to install in your cabinet or control box.



WAGO Terminal Accessories

END STOPS & GROUP MARKERS

#2143



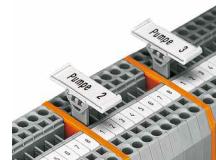
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249-116



2009-163



209-112 & 209-141



249-119

Item No	Type	Label Product
End Stop		
249-116	Screwless End Stop - 6mm Wide	
249-117	Screwless End Stop - 10mm Wide	
249-197	Screwless End Stop - 14mm Wide	
Group Markers		
2009-163	Height-adjustable group marker carrier suits end stops 249-116 & 249-117	2009-110 or 2009-115
209-112	Group marker carrier; white	209-113
209-141	Group Carrier Marker - fits into jumper slot of rail-mount terminal blocks	
249-119	Height-adjustable group marker carrier suits end stops 249-116 & 249-117	209-113

WAGO Operating Tools

HAND TOOLS FOR TERMINALS

#2143



SEARCH ON EXPRESS.ECSNZ.COM



285-172



210-720



210-658



210-722

Item No	Type
Universal Tools	
210-720	Straight - 3.5 x 0.5mm with a partially insulated shaft
210-658	Angled - 3.5 x 0.5mm with a partially insulated shaft
210-722	Screwdriver set with 2.5mm, 3.5mm and 5.5mm heads
High Current Tool	
285-172	Hex wrench for high current terminals



WAGO SmartPrinter

THERMAL TRANSFER PRINTER & ACCESSORIES

#2239
Freephone ECS Sales

Description

A universal and Fast Thermal Transfer Printer

Benefits

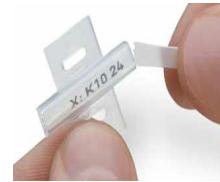
- » Easy to use - Generate all marking data directly via smartSCRIPT FREE marking software
- » Long-Lasting, Wipe and Scratch Proof Marking
- » One printer for both Terminal Group and Wire Markers



Item No	Type
Printer	
258-5000	Thermal transfer printer; Smart Printer; for complete control cabinet marking; 300 dpi
Printer Accessories	
258-5030	Cutter; for Smart Printer; for marking strips, equipment markers, conductor and cable markers; Durable; High accuracy
258-5005	Thermal transfer ink ribbon; for Smart Printer; black



Part Number	Diameter	Type	Conductor Cross Section Range	Colour	Reel Size
Printable Products - Snap-on Terminal Markers					
2009-110		Non-stretchable Marking Strips		White	50m
2009-115		WMB-Inline Stretchable 5-5.2 mm		White	1500 labels
Printable Product - Collar Wire Markers					
211-811	12x4mm			White	2500 labels
211-821	23x4mm			White	2500 labels
Printable Product - Heatshrink					
211-500	2.4 mm		0.25mm ² to 0.75mm ²	White	20m
211-500/000-002	2.4 mm		0.25mm ² to 0.75mm ²	Yellow	20m
211-501	3.2 mm		0.75mm ² to 1mm ²	White	20m
211-501/000-002	3.2 mm		0.75mm ² to 1mm ²	Yellow	20m
211-502	4.8 mm		1.00mm ² to 2.5mm ²	White	20m
211-502/000-002	4.8 mm		1.00mm ² to 2.5mm ²	Yellow	20m
211-503	6.4 mm		4mm ² to 6mm ²	White	20m
211-503/000-002	6.4 mm		4mm ² to 6mm ²	Yellow	20m
211-504	9.5 mm		10mm ² to 16mm ²	White	15m
211-504/000-002	9.5 mm		10mm ² to 16mm ²	Yellow	15m
211-505	9.5 mm		25mm ² to 35mm ²	White	15m
211-505/000-002	9.5 mm		25mm ² to 35mm ²	Yellow	15m
211-506	19 mm		35mm ² to 50mm ²	White	15m
211-506/000-002	19 mm		35mm ² to 50mm ²	Yellow	15m

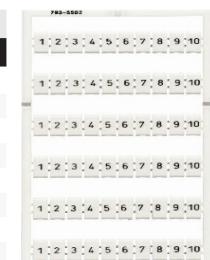


Part Number	Suitable Conductor Diameters	Pack Size
12mm Clear Collar		
211-812	1.4mm to 5 mm	500
211-813	5mm to 11 mm	500
23mm Clear Collar		
211-823	1.4mm to 5 mm	500
211-824	5mm to 11 mm	200
211-926	10mm to 14 mm	200
211-927	14mm to 22 mm	100
23mm - Cable Tie Mount		
211-829	23 mm long; mounting with cable ties	200

WAGO Pre-Printed Marking Systems

PRINTED TERMINAL MARKERS - WMB 5MM TO 5.2MM (STRETCHABLE)

HORIZONTAL			VERTICAL		
Part Number	Type	Qty	Part Number	Type	Qty
793-5502	1 to 10	10 Sets	793-5602	1 to 10	10 Sets
793-5503	11 to 20	10 Sets	793-5603	11 to 20	10 Sets
793-5504	21 to 30	10 Sets	793-5604	21 to 30	10 Sets
793-5505	31 to 40	10 Sets	793-5605	31 to 40	10 Sets
793-5506	41 to 50	10 Sets	793-5606	41 to 50	10 Sets
793-5566	1 to 50	2 Sets	793-5666	1 to 50	2 Sets
793-5507	51 to 100	2 Sets	793-5607	51 to 100	2 Sets
793-5501	Blank	100 Markers	793-5501	Blank	100 Markers



CUSTOM MARKERS AVAILABLE ON REQUEST



ecs

MARKING



RENT ME

WAGO Smart Printer Thermal Transfer Printer



\$15

per/day

projects.ecsnz.com/rental-categories/markings-solutions

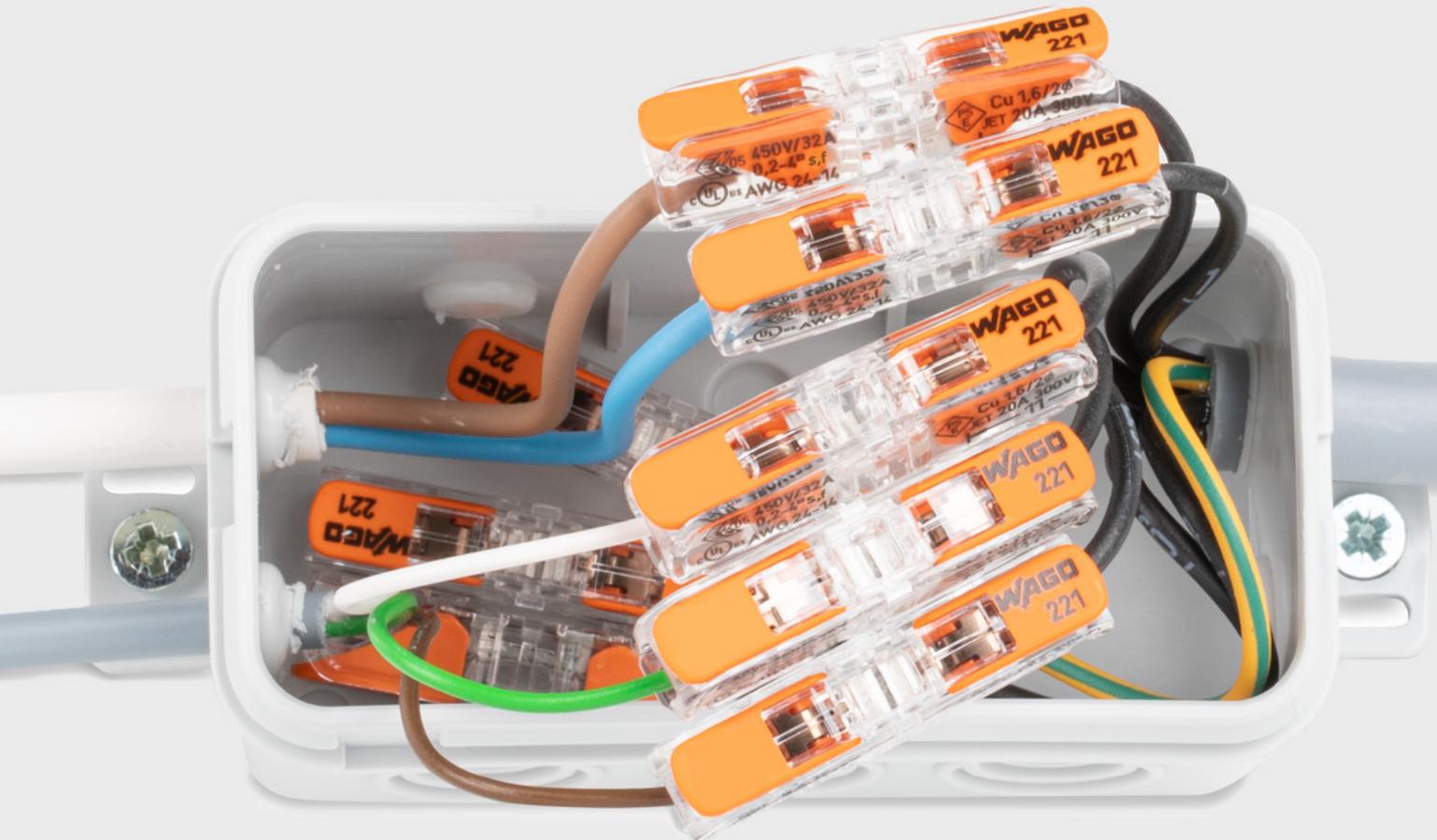


221 Series

Inline Splicing Connector

CONNECT ALL CONDUCTOR TYPES WITHOUT TOOLS

The new 221 Series Inline Splicing Connector with levers combines all the trusted advantages of the 221 Series Splicing Connectors into a slim design.



WAGO 221 - Standard Quick Connectors

COMPACT WIRE SPLICING CONNECTORS

#2485



SEARCH ON EXPRESS.ECSNZ.COM

Features

- » 4mm connectors are suitable for all conductor types - 0.14 - 4mm²
- » 6mm connectors are suitable for all conductor types - 0.5 - 6mm²
- » Quick and easy to open
- » Require less opening force
- » The recessed grips on the side also prevent slipping and make it easier to hold the connector while inserting the conductor
- » Fast, Easy, Safe, Reliable, Compact, Vibration-proof, Maintenance-free

Benefits

- » Ease of use
- » Connection of all conductor types
- » Time savings for installers and device manufacturers
- » Quickly install devices with higher levels of power consumption
- » Safely install long cable runs with larger conductor cross sections
- » Mounting carrier for installation conforms to standards



221-413



887-952



221-500



221-500 + 222-505



221-503



221-413/4401-050

Part Number	Type
4mm Individual	
221-412	2 Pole Snap Connector for 4mm
221-413	3 Pole Snap Connector for 4mm
221-415	5 Pole Snap Connector for 4mm
6mm Individual	
221-612	2 Pole Snap Connector for 6mm
221-613	3 Pole Snap Connector for 6mm
221-615	5 Pole Snap Connector for 6mm
Jars	
221-412/K000-0001	Jar (100) 2-Way 4mm
221-413/K000-0001	Jar (50) 3-Way 4mm
221-415/K000-0001	Jar (25) 5-Way 4mm
221-612/K000-0002	Jar (50) 2-Way 6mm
221-613/K000-0002	Jar (30) 3-Way 6mm
221-615/K000-0002	Jar (15) 5-Way 6mm
Accessories	
221-500	DIN Rail Mounted Connector Carrier for 4mm
221-510	DIN Rail Mounted Connector Carrier for 6mm
222-505	Strain Relief Plate for Mounting Carriers
222-510	Angled DIN-rail adapter for horizontal mounting
221-502	Mounting carrier for 2-wire connectors for screw mounting
221-503	Mounting carrier for 3-wire connectors for screw mounting
221-505	Mounting carrier for 5-wire connectors for screw mounting
Assorted Kits	
887-952	Assorted Box of 2, 3 and 5 way connectors 4mm
887-957	Assorted Box of 2, 3 and 5 way connectors 4mm & 6mm
Includes	
100 x (221-412): 100 x (221-413): 25 x (221-415): 4 x (221-500)	
40 x (221-612): 30 x (221-613): 15 x (221-615): 75 x (221-415):	
50 x (221-413): 25 x (221-415): 1 x (221-500)	

WAGO 221 - Inline Quick Connectors

COMPACT WIRE SPLICING CONNECTORS

#2486



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Description

All the same great features and benefits of the standard range plus the added feature of a slim design minimising dimensions for installations in tight spaces.

Notes

Other Carrier sizes available on request.



221-2411



221-2411/K000-0007



209-120



Part Number	Type
4mm	
221-2411	WAGO 221 Inline Connector - 4mm ² - Clear
Jars	
221-2411/K000-0007	Jar (60) WAGO 221 Inline Connector 4mm ²
Accessories	
209-120	Din Mounting Foor for Snap-in Devices
WAGO-221-2533	Din Snap-In Carrier Without Strain Relief 3-Way
WAGO-221-2535	Din Snap-In Carrier Without Strain Relief 5-Way
WAGO-221-2513	Din Snap-In Carrier With Strain Relief 3-Way
WAGO-221-2515	Din Snap-In Carrier With Strain Relief 5-Way
WAGO-221-2523	Screw Mount Carrier Without Strain Relief 3-Way
WAGO-221-2525	Screw Mount Carrier Without Strain Relief 5-Way
WAGO-221-2503	Screw Mount Carrier With Strain Relief 3-Way
WAGO-221-2505	Screw Mount Carrier With Strain Relief 5-Way

Wieland NRG Flat Cable System

LIGHTING POWER DISTRIBUTION CABLE

#1405



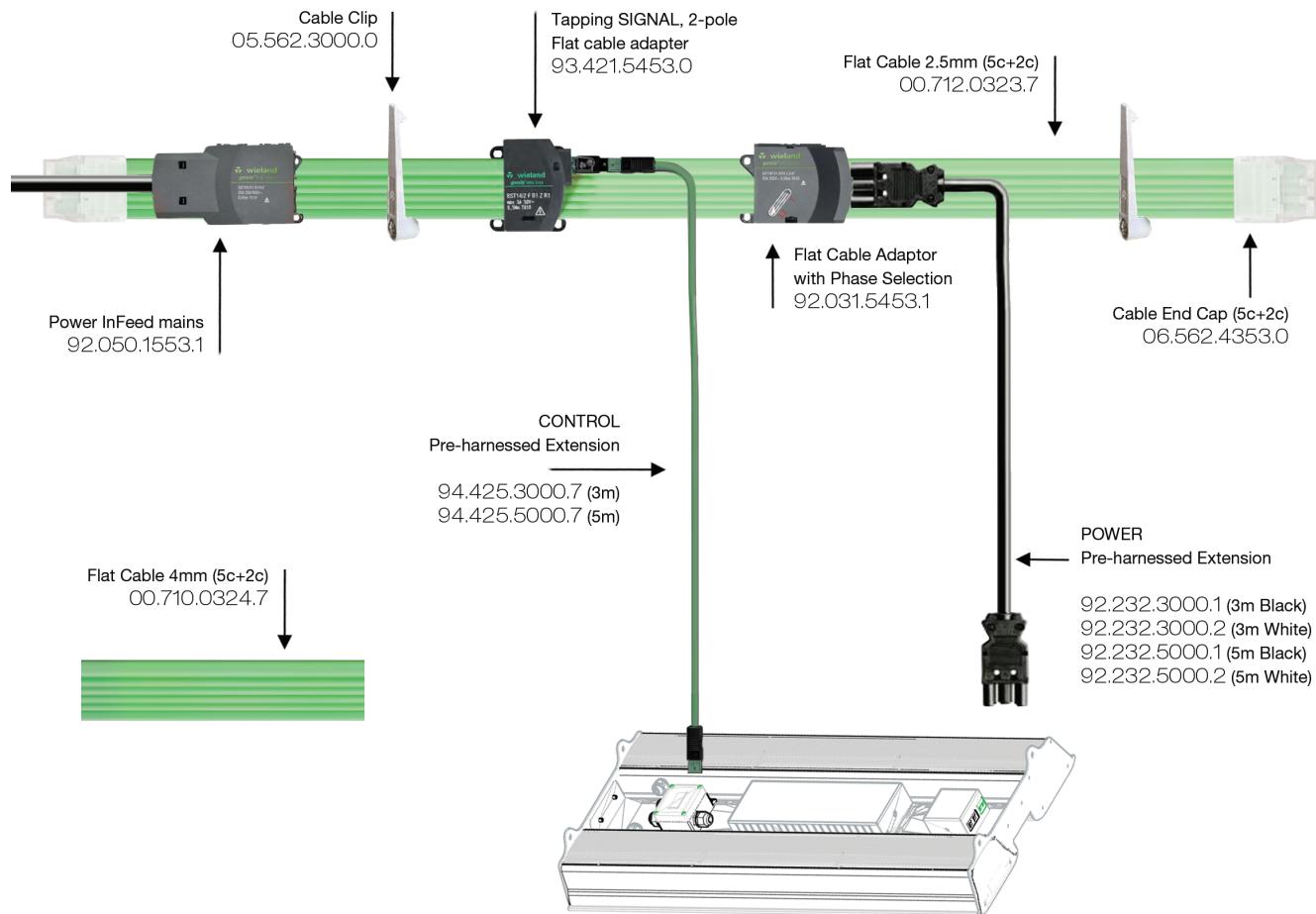
SEARCH ON EXPRESS.ECSNZ.COM

Details

Complete plug and play power distribution system ideal for high bay warehouse lighting. A single 3+N+E flat cable is run as a backbone and connection taps slide over the cable to make terminations.

Advantages

- » Only need to run one cable rather than multiple TPS cables
- » Time saving - Taps slide straight over the cable
- » Substantial reduction in time working at height
- » Error free terminations
- » Future Proof - Additional Taps can be added at any time
- » Cost Savings - Materials are a similar price to traditional wiring methods



Item No	Description	Type
Back Bone Flat Cable		
00.712.0323.7	Flat Cable 2.5mm	(5c+2c)
00.710.0324.7	Flat Cable 4mm	(5c+2c)
Control Cable		
94.425.3000.7	Pre-harnessed Control Cable Extension	3meter
94.425.5000.7	Pre-harnessed Control Cable Extension	5meter
Power Cable		
92.232.3000.1	Pre-harnessed Power Cable Extension	3m Black
92.232.3000.2	Pre-harnessed Power Cable Extension	3m White
92.232.5000.1	Pre-harnessed Power Cable Extension	5m Black
92.232.5000.2	Pre-harnessed Power Cable Extension	5m White
Taps		
92.050.1553.1	5 pole Power Feed In	GST18I5A
93.421.5453.0	Tapping SIGNAL, 2-pole Flat cable adapter	
92.031.5453.1	Flat Cable Adaptor with Phase Selection	GST18I3I
Accessories		
05.562.3000.0	Cable Clip	
06.562.4353.0	Cable End Cap	(5c+2c)
Tools		
95.300.0300.0	Special Cable Cutting Shears	
95.350.0200.0	Special Cable Striping tool for ends	

Wieland GST - 3 Pole 18i3

SINGLE PHASE CONNECTORS FOR LIGHTING

Details

Plug and Play connectors for commercial lighting installations. Designed specifically to reduce installation time by allowing pre-terminated before running the cables. Maintenance is also made easier as individual fittings can be disconnected without turning off the mains.



Female 92.931.3053.1



Male 92.932.3053.1



Conductor Sizes

» From 0.75mm² to 2.5mm² Conductors

Current Rating

» 20A

Voltage Rating

» 3 Pole - 250
» 5 Pole - 400

Applications

» Commercial Lighting
» General Power Distribution

Item No Rating Type

Cable OD Termination

Connectors

92.931.3053.1	250V / 20A	Female Connector	11mm Max	Screw
92.932.3053.1	250V / 20A	Male Connector	11mm Max	Screw
05.561.3653.1		Sealing cap for female 3 pole connectors		Screw

Panel Mount

92.031.8758.1	250V / 20A	Female Panel Mount	Screw	
92.032.8758.1	250V / 20A	Male Panel Mount	Screw	

Distribution Blocks

92.030.1053.1		Distribution Block - 1 IN / 2 OUT		
92.030.4853.1		Distribution Block - 1 IN / 3 OUT		
92.030.5353.1		Distribution Block - 1 IN / 5 OUT		

Harnessed Leads

92.232.xx00.1	3G1.5mm	Male to Female Lead (xx denotes length in m)		
92.232.xx03.1	3G1.5mm	Female to free end (xx denotes length in m)		
92.232.xx04.1	3G1.5mm	Male to free end (xx denotes length in m)		
92.238.xx00.1	3G2.5mm	Male to Female Lead (xx denotes length in m)		
92.238.xx03.1	3G2.5mm	Female to free end (xx denotes length in m)		
92.238.xx04.1	3G2.5mm	Male to free end (xx denotes length in m)		

#124



SEARCH ON EXPRESS.ECSNZ.COM

Wieland GST - 5 Pole 18i5

SINGLE PHASE CONNECTORS FOR LIGHTING

Details

Plug and Play connectors for commercial lighting installations. Designed specifically to reduce installation time by allowing pre-terminated before running the cables. Maintenance is also made easier as individual fittings can be disconnected without turning off the mains.



Female 92.953.4053.1



Male 92.954.4053.1



Conductor Sizes

» From 0.75mm² to 2.5mm² Conductors

Current Rating

» 20A

Voltage Rating

» 3 Pole - 250
» 5 Pole - 400

Applications

» Commercial Lighting
» General Power Distribution

Item No Rating Type

Cable OD Termination

Connectors

92.953.4053.1	250V / 20A	Female Connector	13mm Max	Screw
92.954.4053.1	250V / 20A	Male Connector	13mm Max	Screw
05.566.9253.0		Sealing cap for female 5 pole connectors		Screw

Panel Mount

92.051.9658.1	250V / 20A	Female Panel Mount	Screw	
92.052.9658.1	250V / 20A	Male Panel Mount	Screw	

Distribution Blocks

92.050.1053.1		Distribution Block - 1 IN (5 pole) / 2 OUT (5 pole)		
92.050.4153.1		Distribution Block - 1 IN (5) / 1 OUT (5) + 1 OUT (Phase 1)		
92.050.4253.1		Distribution Block - 1 IN (5) / 1 OUT (5) + 1 OUT (Phase 2)		
92.050.4353.1		Distribution Block - 1 IN (5) / 1 OUT (5) + 1 OUT (Phase 3)		

Harnessed Leads

92.257.xx00.1	5G1.5mm	Male to Female Lead (xx denotes length in m)		
92.257.xx03.1	5G1.5mm	Female to free end (xx denotes length in m)		
92.257.xx04.1	5G1.5mm	Male to free end (xx denotes length in m)		
92.258.xx00.1	5G2.5mm	Male to Female Lead (xx denotes length in m)		
92.258.xx03.1	5G2.5mm	Female to free end (xx denotes length in m)		
92.258.xx04.1	5G2.5mm	Male to free end (xx denotes length in m)		

#124



SEARCH ON EXPRESS.ECSNZ.COM

ecs

LIGHTING CONNECTORS

Wieland RST - 3 Pole 20A Range

IP68 SINGLE PHASE CONNECTORS

Details

Plastic waterproof connection solutions. Made from extremely tough UV resistant plastic. Connection is made via pushing connectors together and is held in place via locking pin. A screwdriver is required to release the connection.

Conductor Sizes

- » 0.75mm² to 4mm²

Voltage Rating

- » 250V

Current Rating

- » 20A

Applications

- » Outdoor Lighting
- » Stage Lighting
- » Garden Lighting
- » Extension leads
- » Repairing damaged cables
- » Pumps in wet areas

IP Rating

- » IP68

#125



SEARCH ON EXPRESS.ECSNZ.COM

Item No	Rating	Type	Cable OD	Hole Size
Connectors				
96.032.4053.1	250V / 20A	Male	6-10mm	
96.031.4053.1	250V / 20A	Female	6-10mm	
96.032.4153.1	250V / 20A	Male	10-14mm	
96.031.4153.1	250V / 20A	Female	10-14mm	
Panel Mounts				
96.032.5053.1	250V / 20A	Male		M25
96.031.5053.1	250V / 20A	Female		M25
Splitters				
96.030.0153.1	250V / 20A	1 Male / 3 Females		
Sealing Caps				
99.416.6205.2		For Male Connectors (includes cable noose)		
99.414.6205.2		For Female Connectors (includes cable noose)		



Wieland RST - 5 Pole 20A Range

IP68 SINGLE PHASE CONNECTORS

Details

Plastic waterproof connection solutions. Made from extremely tough UV resistant plastic. Connection is made via pushing connectors together and is held in place via locking pin. A screwdriver is required to release the connection.

Conductor Sizes

- » 0.75mm² to 4mm²

Voltage Rating

- » 250/400V (Suitable for 3 phase)

Current Rating

- » 20A

Applications

- » Pumps in wet areas
- » Motor connections for machines

IP Rating

- » IP68

#125



SEARCH ON EXPRESS.ECSNZ.COM

Item No	Rating	Type	Cable OD	Hole Size
Connectors				
96.052.4053.1	400V / 20A	Male	6-10mm	
96.051.4053.1	400V / 20A	Female	6-10mm	
96.052.4153.1	400V / 20A	Male	10-14mm	
96.051.4153.1	400V / 20A	Female	10-14mm	
Panel Mounts				
96.052.5053.1	400V / 20A	Male		M25
96.051.5053.1	400V / 20A	Female		M25
Splitters				
96.051.4253.1		1 x Female (5 pole) - 2 cable glands for 6 to 10mm		
96.050.0153.1		1 x Male (5 pole) - 3 Females (5 pole)		
96.050.6153.1		1 x Male (5 pole) - 3 Females (3 pole L1+L2+L3)		
Sealing Caps				
99.532.0000.7		For Male Connectors (includes cable noose)		
99.530.0000.7		For Female Connectors (includes cable noose)		



Wieland RST - 7 pole 20A Range

IP68 SINGLE PHASE CONNECTORS

Details

Plastic waterproof connection solutions. Made from extremely tough UV resistant plastic. Connection is made via pushing connectors together and is held in place via locking pin. A screwdriver is required to release the connection.

Conductor Sizes

- » 0.75mm² to 4mm²

Voltage Rating

- » 250/400V (Suitable for 3 phase)

Current Rating

- » 20A

Applications

- » Pumps in wet areas
- » Motor connections for machines

IP Rating

- » IP68

#125



SEARCH ON EXPRESS.ECSNZ.COM

Item No	Rating	Type	Cable OD	Hole Size
Connectors				
96.072.4053.1	400V / 20A	Male Connector	6-10mm	
96.071.4053.1	400V / 20A	Female Connector	6-10mm	
96.072.4153.1	400V / 20A	Male Connector	10-14mm	
96.071.4153.1	400V / 20A	Female Connector	10-14mm	
96.072.4553.1	400V / 20A	Male Connector	(13 to 18mm)	
96.071.4553.1	400V / 20A	Female Connector	(13 to 18mm)	
Panel Mounts				
96.072.6353.1	400V / 20A	Male Panel Mount		M25
96.071.6353.1	400V / 20A	Female Panel Mount		M25
Splitters				
96.072.4253.1		1 x Male (7) / 2 x Gland (6mm to 10mm)		
96.071.4253.1		1 x Female (7) / 2 x Gland (6mm to 10mm)		
Sealing Caps				
99.532.0000.7		For Male RST, 7pole (with cable noose)		
99.530.0000.7		For Female RST, 7pole (with cable noose)		



PowerLock Connectors

IP67 SINGLE PHASE HIGH POWER LOW VOLTAGE CONNECTORS

#1660



SEARCH ON EXPRESS.ECSNZ.COM

Benefits

- » Resistant to mechanical influences in harsh environmental conditions
- » Connectors in harmonised colours according to NZ standards
- » Every colour has a different coding to prevent incorrect plugging

Application range

- » For renewable energy plants, e.g. wind power
- » For mobile and stationary power distribution
- » For the connection of motors, transformers and generators
- » Light & sound technology

Voltage Rating

- » 1000V

IP Rating

- » IP67

Current Rating

- » 400A

Panel Drains (A1)



Item No LAPP-PL_PD_RD

LAPP-PL_PD_WH

LAPP-PL_PD_BU

LAPP-PL_PD_BK

LAPP-PL_PD_GN

NZ Colours

Red

White

Blue

Black (Neutral)

Green (Earth)

Included Part number includes housing and contact with M12 stud

Panel Source (A6)



Item No LAPP-PL_PS_RD

LAPP-PL_PS_WH

LAPP-PL_PS_BU

LAPP-PL_PS_BK

LAPP-PL_PS_GN

NZ Colours

Red

White

Blue

Black (Neutral)

Green (Earth)

Included Part number includes housing and contact with M12 stud

Line Drain (F6)



Item No LAPP-PL_LD_RD

LAPP-PL_LD_WH

LAPP-PL_LD_BU

LAPP-PL_LD_BK

LAPP-PL_LD_GN

NZ Colours

Red

White

Blue

Black (Neutral)

Green (Earth)

Included Part number includes housing, contact, 120mm sleeve and M40 gland

Line Source (D6)



Item No LAPP-PL_LS_RD

LAPP-PL_LS_WH

LAPP-PL_LS_BU

LAPP-PL_LS_BK

LAPP-PL_LS_GN

NZ Colours

Red

White

Blue

Black (Neutral)

Green (Earth)

Included Part number includes housing, contact, 120mm sleeve and M40 gland

PowerLock Accessories

ACCESSORIES FOR POWERLOCK CONNECTORS

#1665



SEARCH ON EXPRESS.ECSNZ.COM



Disconnection Tool



Reduction Kit



Protection Caps Line



Protection Caps Panel

Item No	Description	Purpose	Details		
Tools					
LAPP-44420243	PowerLock Disconnection Tool	Removal tool for mated PowerLock Connectors			
Reduction Kits					
LAPP-44420245	PowerLock Reduction Kit 95	Reduction set for PowerLock screw contact	120mm to 95mm		
LAPP-44420246	PowerLock Reduction Kit 70	Reduction set for PowerLock screw contact	120mm to 70mm		
LAPP-44420247	PowerLock Reduction Kit 50	Reduction set for PowerLock screw contact	120mm to 50mm		
Protection Caps					
LAPP-44420250	PowerLock Protection Cap F6	For Line Drain Connectors	IP54	F6	Drain
LAPP-44420251	PowerLock Protection Cap D6	For Line Source Connectors	IP54	A6	Source
LAPP-44420252	PowerLock Protection Cap A1	For Panel Drain Connectors	IP54	A1	Drain
LAPP-44420253	PowerLock Protection Cap A6	For Panel Source Connectors	IP54	A6	Source



POWERLOCK CONNECTORS

CEE Connectors & Plugs

PCE 16A TO 125A CONNECTORS & PLUGS IP44 & IP67

#2195



SEARCH ON EXPRESS.ECSNZ.COM

Features

» PCE has a dynamic range of CEE Connectors ranging from 16A to 125A, 3 to 5 Pole and available in IP44 or IP67 versions. A robust design that can challenge harsh environments. Quick and easy assembly that saves time and energy.

Construction

- » Polyamide 6
- » PC/ABS
- » Halogen Free

Benefits

- » Excellent impact resistance
- » High Thermal Stability (self-extinguishing)
- » High abrasion resistance
- » High weather & UV-resistance
- » Very good chemical resistance

Conformities

- » ISO 4892-2
- » RoHS-directive 2011/65/EU



Type	Poles	Connector		Plug		Midnight Connector	
		IP44	IP67	IP44	IP67	IP44	IP44
16A							
230Vac 50/60Hz	3	213-6	2132-6	013-6	0132-6	213-6X	013-6X
400Vac 50/60Hz	4	214-6	2142-6	014-6	0142-6	214-6X	014-6X
400Vac 50/60Hz	5	215-6	2152-6	015-6	0152-6	215-6X	015-6X
32A							
230Vac 50/60Hz	3	223-6	2232-6	023-6	0232-6	223-6X	023-6X
400Vac 50/60Hz	4	224-6	2242-6	024-6	0242-6	224-6X	024-6X
400Vac 50/60Hz	5	225-6	2252-6	025-6	0252-6	225-6X	025-6X
63A							
230Vac 50/60Hz	3	2331-6	233-6	0331-6	033-6	233-6XS	033-6XS
400Vac 50/60Hz	4	2341-6	234-6	0341-6	034-6	234-6XS	034-6XS
400Vac 50/60Hz	5	2351-6	235-6	0351-6	035-6	235-6XS	035-6XS
125A							
230Vac 50/60Hz	3		243-6		043-6	243-6XS	043-6XS
400Vac 50/60Hz	4		244-6		044-6	244-6XS	044-6XS
400Vac 50/60Hz	5		245-6		045-6	245-6XS	045-6XS

CEE Wall Mount Sockets & Appliance Inlets

PCE 16A TO 125A WALL MOUNT SOCKETS & APPLIANCE INLETS IP44 & IP67

#2201



SEARCH ON EXPRESS.ECSNZ.COM



Type	Poles	Wall Socket		Wall Plug / Inlet	
		IP44	IP67	IP44	IP67
16A					
230Vac 50/60Hz	3	113-6	1132-6	513-6	5132-6K
400Vac 50/60Hz	4	114-6	1142-6	514-6	5142-6K
400Vac 50/60Hz	5	115-6	1152-6	515-6	5152-6K
32A					
230Vac 50/60Hz	3	123-6	1232-6	523-6	5232-6K
400Vac 50/60Hz	4	124-6	1242-6	524-6	5242-6K
400Vac 50/60Hz	5	125-6	1252-6	525-6	5252-6K
63A					
230Vac 50/60Hz	3		133-6		533-6
400Vac 50/60Hz	4		134-6		534-6
400Vac 50/60Hz	5		135-6		535-6
125A					
230Vac 50/60Hz	3		143-6		543-6
400Vac 50/60Hz	4		144-6		544-6
400Vac 50/60Hz	5		145-6		545-6

CEE Flanged Socket & Plug - Straight

PCE 16A TO 125A SOCKET & PLUG IP44 & IP67

2206



SEARCH ON EXPRESS.ECSNZ.COM



Voltage	Poles	Straight Flanged Socket IP44	IP67	Straight Flanged Inlet IP44	IP67	Midnight Straight Flanged Socket IP44	IP44
16A							
230Vac 50/60Hz	3	313-6F7	3132-6	613-6	6132-6	313-6X	613-6X
400Vac 50/60Hz	4	314-6F7	3142-6	614-6	6142-6	314-6X	614-6X
400Vac 50/60Hz	5	315-6F7	3152-6	615-6F7	6152-6	315-6X	615-6X
32A							
230Vac 50/60Hz	3	323-6F7	3232-6	623-6	6232-6	323-6X	623-6X
400Vac 50/60Hz	4	324-6F7	3242-6	624-6	6242-6	324-6X	624-6X
400Vac 50/60Hz	5	325-6F7	3252-6	625-6F7	6252-6	325-6X	625-6X
63A							
230Vac 50/60Hz	3		333-6		633-6	333-6XS	
400Vac 50/60Hz	4		334-6		634-6	334-6XS	
400Vac 50/60Hz	5		335-6		635-6	335-6XS	
125A							
230Vac 50/60Hz	3		343-6		643-6	343-6XS	
400Vac 50/60Hz	4		344-6		644-6	344-6XS	
400Vac 50/60Hz	5		345-6		645-6	345-6XS	

CEE Flanged Socket & Appliance Inlet - Sloping/Angled

PCE 16A TO 125A SOCKET & APPLIANCE INLET - IP44 & IP67

#2207



Voltage	Poles	Sloping Flanged Socket IP44	IP67	Angled Flanged Inlet IP44	IP67	Midnight Sloping Flanged Socket IP44	IP67
16A							
230Vac 50/60Hz	3	413-6F8	4132-6F8	77713-6	777132-6	413-6F8X	
400Vac 50/60Hz	4	414-6F8	4142-6F8	77714-6	777142-6	414-6F8X	
400Vac 50/60Hz	5	415-6	4152-6F78	77715-6	777152-6	415-6X	
32A							
230Vac 50/60Hz	3	423-6	4232-6F7	77723-6	777232-6	423-6X	
400Vac 50/60Hz	4	424-6	4242-6F78	77724-6	777242-6	424-6X	
400Vac 50/60Hz	5	425-6	4252-6F78	77725-6	777252-6	425-6X	
63A							
230Vac 50/60Hz	3		433-6		77733-6		433-6XS
400Vac 50/60Hz	4		434-6		77734-6		434-6XS
400Vac 50/60Hz	5		435-6		77735-6		435-6XS
125A							
230Vac 50/60Hz	3		443-6		743-6		443-6VS
400Vac 50/60Hz	4		444-6		744-6		444-6XS
400Vac 50/60Hz	5		445-6		745-6		445-6XS

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CEE CONNECTORS

CEE Phase Inverter Plugs

PCE PHASE INVERTER PLUGS 16A TO 32A 400VAC 50/60HZ IP44 & IP67

#2212



SEARCH ON EXPRESS.ECSNZ.COM

Description

- » Changes the direction of rotation of three-phase motors without the need to reconnect the lead wire. Two phase pins arranged on one rotor. This can be turned by 180° from the outside using a screw driver.

Benefits

- » No re-wiring required if changing the rotation of the motor is required
- » Great for Hireage equipment, mobile socket applications



Current Rating

Poles

IP44

IP67

16A

5

7015-6

70152-6

32A

5

7025-6

70252-6

CEE Caravan Plugs and Sockets

PCE CARAVAN PLUGS AND SOCKETS 16A 230VAC 50/60HZ IP44 & IP67

#2198



SEARCH ON EXPRESS.ECSNZ.COM

Description

PCE Caravan devices are perfectly designed for the use on camp sites, caravan and marinas

Benefits

- » Robust Design
- » Brass or Nickel-Plated Contacts

Features

- » Ingress Protection options - IP44 & IP67
- » Current Rating/Number of Poles - 16A 3P
- » Position of Earth Contact - 6H

Voltage

» 230Vac 50/60Hz



	Wall Mount Plug	Flanged Plug Angled	Socket	Plugs	Connectors	Angled	
	IP44	IP67	IP44	IP67	IP44	IP67	IP44
Item No	513-6D	5132-6K	77713-6	777132-6	113-6	1132-6	013-6
Dust Caps		20163	TS613G	20163		TS613G	20163

CEE Container Plugs and Sockets

PCE CONTAINER PLUGS & SOCKETS 32A 400VAC 50/60HZ IP67

#2197



SEARCH ON EXPRESS.ECSNZ.COM

Description

- » PCE Container Plugs and sockets are specially designed for the rough condition on reefers-containers, at harbors and terminals.
- » Ingress Protection - IP67
- » Current Rating/Number of Poles - 32A/4 Pole
- » Position of Earth Contact - 3H

Benefits

- » Nickel-Plated Contacts
- » Robust Design
- » External, Central Cable Gland
- » with Lloyd's Register Type Approval (1)



CEE Dust & Water Protection Caps

FOR PLUGS & APPLIANCE INLETS

#2213



SEARCH ON EXPRESS.ECSNZ.COM

Description

- » For PCE Plugs and Appliance Inlets added protection against dust and water
- » Available for both IP44 and IP67 Protection

Material

- » IP44 Dust Caps - TPE/PP
- » IP67 Watertight Caps 16/32/63A - Polypropylene
- » IP67 Watertight Caps 125A - Polyamide PA6



	Dust Caps IP44				Watertight Caps IP67			
Poles	16A	32A	63A	125A	16A	32A	63A	125A
3	TS613G	TS623G	TS635G	TS645G	20163	203234	TS7632G	TS1252G
4	TS614G	TS623G	TS635G	TS645G	20164	203234	T67632G	TS1252G
5	TS615G	TS625G	TS635G	TS645G	20165	20325	TS7632G	TS1252G

EPIC HA 3+E & 4+E Pole Series

IP65 CONNECTORS FOR STANDARD INDUSTRIAL SENSORS

#1416



SEARCH ON EXPRESS.ECSNZ.COM



Multi-Pole Inserts



Metal Hoods



Metal Bases & Couplers

Item No	Type	Poles	Rating	Thread	Gland (Plastic)	Gland (Spiral)	Gland (Metal)
Multi-Pole Inserts							
10420000	Male Insert	3 pole + earth	400V / 23A				
10421000	Female Insert	3 pole + earth	400V / 23A				
10431000	Male Insert	4 pole + earth	400V / 23A				
10432000	Female Insert	4 pole + earth	400V / 23A				
Metal Hoods							
10512100	Straight Metal			PG11	53015020	53015620	52015720
10512300	90 Metal			PG11	53015020	53015620	52015720
19512100	Straight Metal			M20	53111020	53111620	53112020
19512300	90 Metal			M20	53111020	53111620	53112020
Metal Bases & Couplers							
10422500	Panel Mount						
10424500	Base with gland			PG11	53015020	53015620	52015720
19512700	Base with gland			M20	53111020	53111620	53112020
10512900	Coupler Hood			PG11	53015020	53015620	52015720
19512900	Coupler Hood			M20	53111020	53111620	53112020

EPIC HB 6+E Pole Series

IP65 CONNECTORS FOR STANDARD INDUSTRIAL SENSORS

#1419



Multi-Pole Inserts



Metal Hoods



Metal Bases & Couplers

Item No	Type	Poles	Rating	Thread	Gland (Plastic)	Gland (Spiral)	Gland (Metal)
Multi-Pole Inserts							
10190000	Male insert	6 + earth	500V / 16A				
10191000	Female insert	6 + earth	500V / 16A				
Metal Hoods							
10021000	Straight - Double stud			PG16	53015040	53015640	52015740
19011000	Straight - Double stud			M20	53111020	53111630	53112020
19021000	Straight - Double stud			M25	53111030	53111630	53112030
19022000	90 degree - Double stud			M25	53111030	53111630	53112030
Metal Bases & Couplers							
10024000	Couple hood straight - Single lever	PG16			53015040	53015640	52015740
10003000	Panel mount - Single lever						



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BOX CONNECTORS

EPIC HB 10+E Pole Series

IP65 CONNECTORS FOR STANDARD INDUSTRIAL SENSORS

#131



SEARCH ON EXPRESS.ECSNZ.COM

BOX CONNECTORS

eCS



Multi-Pole Inserts



Metal Hoods



Metal Bases & Couplers

Item No	Type	Poles	Rating	Thread	Gland (Plastic)	Gland (Spiral)	Gland (Metal)
Multi-Pole Inserts							
10192000	Male insert	10 + earth	500V / 16A				
10193000	Female insert	10 + earth	500V / 16A				
Metal Hoods							
10040000	Straight - 4 stud			PG16	53015040	53015640	52015740
10040100	Straight - 4 stud			PG21	53015050	53015650	52015750
19040100	Straight - 4 stud			M25	53111030	53111630	53112030
70050600	Straight High - 4 stud			PG29	53015060		52015760
79050400	Straight High - 4 stud			M25	53111030	53111630	53112030
10042000	90 Degree - 4 stud			PG16	53015040	53015640	52015740
Metal Bases & Couplers							
10032000	Panel mount - double lever						
10046000	Straight - Double lever	PG16			53015040	53015640	52015740
70040400	Straight High - Double lever	PG21			53015050	53015650	52015750
10049000	Replacement levers - double						

EPIC HB 16+E Pole Series

IP65 CONNECTORS FOR STANDARD INDUSTRIAL SENSORS

#132



Multi-Pole Inserts

Metal Hoods

Metal Bases & Couplers

Item No	Type	Poles	Rating	Gland (Plastic)	Gland (Spiral)	Gland (Metal)
Multi-Pole Inserts						
10194000	Male insert	16 + earth	500V / 16A			
10195000	Female insert	16 + earth	500V / 16A			
Metal Hoods						
10080900	Straight - Double stud	PG21		53015050	53015650	52015750
19080900	Straight - Double stud	M25		53111030	53111630	53112030
19082900	90 degree - Double stud	M25		53111030	53111630	53112030
Metal Bases & Couplers						
10072900	Panel mount - Single lever					
10073900	Panel mount - Single lever + cover					
10074900	box mount - Single lever	PG21		53015050	53015650	52015750
10086900	Couple hood straight - Single lever	PG21		53015050	53015650	52015750

EPIC HB 24+E Pole Series

IP65 CONNECTORS FOR STANDARD INDUSTRIAL SENSORS

#133



Multi-Pole Inserts

Metal Hoods

Metal Bases & Couplers

Item No	Type	Poles	Rating	Gland (Plastic)	Gland (Spiral)	Gland (Metal)
Multi-Pole Inserts						
10196000	Male insert	24 + earth	500V / 16A			
10197000	Female insert	24 + earth	500V / 16A			
Metal Hoods						
10121900	Straight - Double stud	PG21		53015050	53015650	52015750
19121900	Straight - Double stud	M25		53111030	53111630	53112030
19113900	90 degree - Double stud	M25		53111030	53111630	53112030
10123900	90 degree - Double stud	PG29		53015060		52015760
Metal Bases & Couplers						
10102900	Panel mount - Single lever					
10103900	Panel mount - Single lever + cover					
10127900	Couple hood straight - Single lever	PG21		53015050	53015650	52015750

EPIC M23 Encoder

IP68 CONNECTORS FOR ENCODERS

#1512



SEARCH ON EXPRESS.ECSNZ.COM

Details	Conductor Sizes	Current Rating	
Metal connectors commonly used for rotary encoders. EPIC connectors are compatible with most common encoders. Terminations are done via solder buckets.	» From 0.14mm ² to 1mm ² Conductors	» 7A	
Item No	Type	Description	Clamping Range
D6			
72044030	D6	Standard Connector	7 to 10mm
72044000	D6	Standard Connector	9.5 to 13.5mm
F6			
72064030	F6	Coupler Connector	7 to 10mm
72064000	F6	Coupler Connector	9.5 to 13.5mm
A1			
72004000	A1	Panel Mount	

EPIC M23 Inserts

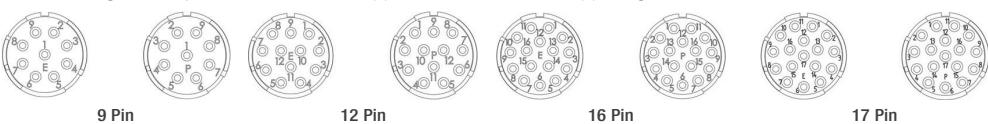
INSERTS FOR ENCODERS

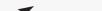
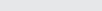
#1511



Details

Details When selecting inserts, you should select the opposite direction for the opposing connector. I.e. Clockwise male to anticlockwise female.



Type	Clockwise		Anti-clockwise
9 Pin			
Male	73002732		73002726
Female	73002734		73002728
12 Pin			
Male	73002720		73002714
Female	73002722		73002716
16 Pin			
Male	73002708		73002702
Female	73002710		73002704
17 Pin			
Male	73028500		73028000
Female	73018500		73018000



LS1 Power

IP68 CONNECTORS FOR SERVO DRIVES

#1509



Details	Conductor Sizes	Voltage Rating	IP Rating
Metal connectors commonly used for servo drives. Many drives such as SEW use LS1 connectors. Terminations can be made via solder or crimp tool. (LS1.5 and LS3 on available on request.)			
			
D6			
Item No	Type	Contacts	Description
D6			
73000005	D6	5 + E	Standard Connector
73000001	D6	3 + E + 4	Standard Connector
F6			
73000013	F6	5 + E	Coupler Connector
73000009	F6	3 + E + 4	Coupler Connector
A1			
76003000	A1	5 + E	Panel Mount
76004000	A1	3 + E + 4	Panel Mount
			
A1			
Conductor Sizes			
» Power Pins: From 0.5mm ² to 4mm ² Conductors			
» Small Pins: From 0.14mm ² to 1mm ² Conductors			
Voltage Rating			
» 630V			
Current Rating			
» 25A (Power Pins)			
» 7A (Small Pins)			
IP Rating			
» IP68			





RENT ME

EPIC® SIGNAL M23 Servo Connector Crimp Tool

\$45
per day

projects.ecsnz.com/rentals



UNITRONIC Valve Connectors with Leads

PUR BLACK CABLE - INCLUDES MARKER SLEEVES

#146

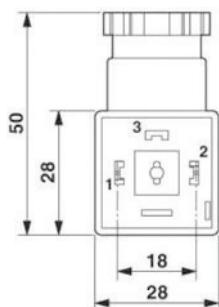


SEARCH ON EXPRESS.ECSNZ.COM

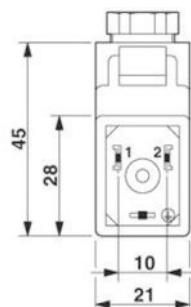
Lead Length	Type A (18mm)	Type B (10mm)	Type BI (11mm)	Type C (8mm)	Type CI (9.4mm)
3 Pole (1 LED)					
2m	22260584	22260585	22260586	22260587	22260588
5m	22260576	22260578	22260580	22260582	22260574
10m	22260577	22260579	22260581	22260583	22260575
5 Pole (2 LED)					
2m	22260589				
5m	22260590				
10m	22260591				



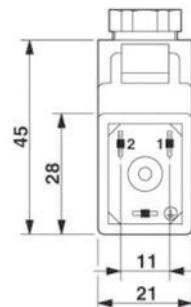
VALVE CONNECTOR SELECTION OPTIONS



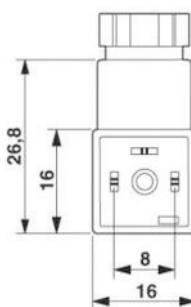
Type A
(18mm)



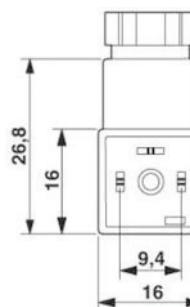
Type B
(10mm)



Type BI
(11mm)



Type C
(8mm)



Type CI
(9.4mm)

SILVYN RILL Conduit

STRONG FLEXIBLE NYLON CONDUIT

#148



SEARCH ON EXPRESS.ECSNZ.COM

Construction

» PA6 Nylon - Halogen free

Protection

» IP68 - with straight glands

» IP67 - with right angle glands

Temperature Rating

» Conduit: -40 to 115

» Glands: -30 to 100



Conduit



Straight gland



90 degree gland



Conduit clip

	12mm	16mm	20mm	25mm	32mm	40mm	50mm
Grey Nylon							
Type	9	11	16	21	29	36	48
Conduit	61746940	61746950	61746960	61746970	61746980	61746990	61747000
ID	10mm	12mm	16.5mm	23mm	29mm	36mm	48mm
OD	13mm	15.8mm	21.2mm	28.5mm	34.5mm	42.5mm	54.5mm
Coil Size	50m	50m	50m	50m	25m	25m	25m
Straight Gland	55501010	55501030	55501050	55501060	55501070	55501080	55501090
90 Degree Gland	55501120	55501140	55501160	55501180	55501200	55501220	55501240
Locknut (Grey)	53119000	53119010	53119020	53119030	53119040	53119050	53119060
Conduit Clip	65500631	65500632	65500634	65500635	65500636	65500637	65500638
Black Nylon							
Type	9	11	16	21	29	36	48
Conduit	61746945	61746955	61746965	61746975	61746985	61746995	61747005
ID	10mm	12mm	16.5mm	23mm	29mm	36mm	48mm
OD	13mm	15.8mm	21.2mm	28.5mm	34.5mm	42.5mm	54.5mm
Coil Size	50m	50m	50m	50m	25m	25m	25m
Straight Gland	55501015	55501035	55501055	55501065	55501075	55501085	55501095
90 Degree Gland	55501125	55501145	55501165	55501185	55501205	55501225	55501245
Locknut (Black)	53119100	53119110	53119120	53119130	53119140	53119150	53119160
Conduit Clip	65500640	65500641	65500643	65500644	65500645	65500646	65500647

SILVYN Liquid Tight Conduit

FLEXIBLE CONDUIT WITH STEEL INNER WALL

#149



Construction

» PVC - Outer Sheath

» Galvanized Steel - Inner Wall

Protection

» IP67

Temperature Rating

» Conduit: -20 to 100 (120 short term)

» Glands: -45 to 105



Conduit



Straight gland



45 degree gland



90 degree gland

	16mm	20mm	25mm	32mm	40mm	50mm
Type	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"
Conduit	61712470	61712480	61712490	61712500	61712510	61712520
ID	12.6mm	16mm	21.0mm	26.5mm	35.1mm	40.3mm
OD	17.8mm	21.1mm	26.4mm	33.1mm	41.8mm	47.8mm
Coil Size	75m or 250m	60m or 150m	50m or 120m	30m	30m	15m
Straight Gland	61803800	61803802	61803803	61803804	61803805	61803806
45 Degree Gland	61803850	61803852	61803853	61803854	55503254	55503255
90 Degree Gland	61803808	61803810	61803811	61803812	61803813	61803814
Locknut (Metal)	52103010	52103020	52103030	52103040	52103050	52103060

ecs
CONDUIT

SKINTOP Nylon Cable Glands

THREADED NYLON GLANDS FOR USE IN CONTROL CABINETS



#158



SEARCH ON EXPRESS.ECSNZ.COM

Construction

Special Polyamide (nylon plastic) for harsh applications

Protection

- » IP68 - 5 bar
- » IP69K

Temperature Rating

- » Static: -40 to 100
- » Cable Moving: -20 to 100



Size	Clamping Range	Thread Length	Gland	Locknut	Gland	Locknut
Nylon metric thread cable gland						
M12	3.5 to 7mm	8	53111200	53119100	53111000	53119000
M16	4.5 to 10mm	8	53111210	53119110	53111010	53119010
M20	7 to 13mm	9	53111220	53119120	53111020	53119020
M25	9 to 17mm	10	53111230	53119130	53111030	53119030
M32	11 to 21mm	10	53111240	53119140	53111040	53119040
M40	19 to 28mm	10	53111250	53119150	53111050	53119050
M50	27 to 35mm	12	53111260	53119160	53111060	53119060
M63	34 to 45mm	12	53111270	53119170	53111070	53119070
Nylon PG thread cable gland						
PG7	2.5 to 6.5mm	8	53015200	53019200	53015000	53019000
PG9	3.5 to 8mm	8	53015210	53019210	53015010	53019010
PG11	4 to 10mm	8	53015220	53019220	53015020	53019020
PG13.5	6 to 12mm	9	53015230	53019230	53015030	53019030
PG16	9 to 14mm	10	53015240	53019240	53015040	53019040
PG21	13 to 18mm	11	53015250	53019250	53015050	53019050
PG29	14 to 25mm	11	53015260	53019260	53015060	53019060

SKINTOP Spiral Cable Glands

CABLE GLANDS WITH SPIRAL STRAIN RELIEF



#160



Construction

- » Special Polyamide (nylon plastic) for harsh applications

Temperature Rating

- » Static: -40 to 100
- » Cable Moving: -20 to 100

Protection

- » IP68 - 5 bar
- » IP69K



Size	Clamping Range	Thread Length	Gland	Locknut	Gland	Locknut
Metric Thread						
M12	3.5 to 7mm	8	53111700	53119100	53111600	53119000
M16	4.5 to 10mm	8	53111710	53119110	53111610	53119010
M20	7 to 13mm	8	53111720	53119120	53111620	53119020
M25	9 to 17mm	9	53111730	53119130	53111630	53119030
M32	11 to 21mm	10	53111740	53119140	53111640	53119040
PG Thread						
PG7	2.5 to 6.5mm	8	53015800	53019200	53015600	53019000
PG9	3.5 to 8mm	8	53015810	53019210	53015610	53019010
PG11	4 to 10mm	8	53015820	53019220	53015620	53019020
PG13.5	6 to 12mm	9	53015830	53019230	53015630	53019030
PG16	9 to 14mm	10	53015840	53019240	53015640	53019040
PG21	13 to 18mm	11	53015850	53019250	53015650	53019050

SKINTOP Brass Cable Glands

METAL CABLE GLANDS FOR TOUGH ENVIRONMENTS



THE APPROVED PRODUCT
DNV-GL
DNLGL.COM

#159



SEARCH ON EXPRESS.ECSNZ.COM

Construction

- » Nickel plated brass with a special Polyamide (nylon plastic) insert.

Protection

- » IP68 - 10 bar

Temperature Rating

- » -30 to 100



Size	Clamping Range	Thread Length	Gland	Locknut
Metric Thread				
M12	3 to 7mm	6.5	53112000	52103000
M16	4.5 to 10mm	7	53112010	52103010
M20	7 to 13mm	8	53112020	52103020
M25	9 to 17mm	8	53112030	52103030
M32	11 to 21mm	9	53112040	52103040
M40	19 to 28mm	9	53112050	52103050
M50	27 to 36mm	10	53112060	52103060
M63	34 to 45mm	15	53112070	52103070
M63 Plus	44 to 55mm	15	53112080	52103070
PG Thread				
PG7	2 to 6.5mm	6.5	52015700	52003490
PG9	4 to 8mm	7	52015710	52003500
PG11	4 to 10mm	8	52015720	52003510
PG13.5	5 to 12mm	8	52015730	52003520
PG16	8 to 14mm	9	52015740	52003530
PG21	11 to 18mm	9	52015750	52003540
PG29	16 to 25mm	10	52015760	52003550

SKINTOP Blanking Glands

FOR SEALING OFF UNUSED HOLES

#165



SEARCH ON EXPRESS.ECSNZ.COM

Construction (Metal)

Nickel plated brass

Construction (Nylon)

Glass-fibre reinforced nylon



Temperature Rating (Metal)

- » With O-ring: -30 to 100
- » Without O-ring: -60 to 200

Temperature Rating (Nylon)

- 40 to 100

Protection (Metal)

- » With O-ring: IP68
- » Without O-ring: IP54

Protection (Nylon)

- » With O-ring: IP68
- » Without O-ring: IP54

Size	Thread Length	Blank	Screwdrivers	Optional O-Ring
Metal				
M12	6	52103100	Flat Head	53102001
M16	6	52103110	Flat Head	53102010
M20	6	52103120	Flat Head	53102020
M25	8	52103130	Flat Head	53102030
M32	8	52103140	Flat Head	53102040
M40	8	52103150	Flat Head	53102050
M50	10	52103160	Flat Head	53102060
M63	12	52103170	Flat Head	53102070
Black Nylon Plastic				
M12	6	52006103	Flat & Phillips	53102001
M16	6	52006113	Flat & Phillips	53102010
M20	6	52006123	Flat & Phillips	53102020
M25	8	52006133	Flat & Phillips	53102030
M32	8	52006143	Flat & Phillips	53102040
M40	8	52006153	Flat & Phillips	53102050
M50	10	52006163	Flat & Phillips	53102060
M63	12	52006173	Flat & Phillips	53102070



RENT ME
\$50
per / day

CIMCO Metric Thread Tap Set M12-M63

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SKINTOP Thread Adapters and Reducers

FOR SWAPPING BETWEEN THREAD TYPES

#164



SEARCH ON EXPRESS.ECSNZ.COM



Outer Thread	Inner Thread	Nickel Brass	Grey Nylon	Black Nylon
Reducers M to M Threads				
M16	M12	52104310	52104505	52104541
M20	M12	52104311	52104470	52104520
M20	M16	52104312	52104504	52104521
M25	M16	52104313	52104473	52104523
M25	M20	52104314	52104474	52104524
M32	M12		52104475	
M32	M16		52104476	52104526
M32	M20	52104315	52104477	52104527
M32	M25	52104316	52104478	52104528
M40	M16		52104479	52104529
M40	M20		52104480	52104530
M40	M25	52104317	52104481	52104531
M40	M32	52104318	52104482	52104532
M50	M25		52104483	52104534
M50	M32	52104319	52104484	52104535
M50	M40	52104320	52104485	52104536
M63	M40	52104321	52104486	52104539
M63	M50	52104322	52104469	52104540
Enlargers M to M Threads				
M12	M16	52104450	52100300	52100308
M16	M20	52104452	52100301	52100309
M20	M25	52104454	52100302	52100310
M25	M32	52104456	52100303	52100311
M32	M40	52104458	52100304	52100312
M40	M50	52104460	52100305	52100313
M50	M63	52104462	52100306	52100314
Adapters PG to M Threads				
PG9	M16	52104491		
PG11	M16	52104492		
PG11	M20	52104493		
PG13.5	M20	52104494		
PG16	M20	52104495		
PG16	M25	52104496		
PG21	M20	52104497		
PG21	M25	52104498		
PG21	M32	52104499		
PG29	M25	52104500		
PG29	M32	52104501		
PG29	M40	52104502		
PG36	M40	52104503		

SKINTOP® LOCATOR

EASY POSITIONING AND SCRIBING OF THE THROUGH-HOLE ON SWITCHGEAR CABINETS

#237



SEARCH ON EXPRESS.ECSNZ.COM

Application Range

- » Cable Gland Through-hole drilling
- » Small to medium control cabinets
- » Electrical installation
- » Quick allocation of cable and conduit glands
- » Suitable for metric cable glands
- » Use the kit for steel enclosure walls

Benefits

- » Fast and easy placement of the SKINTOP® LOCATOR directly on the wall of the cabinet
- » No mistakes during hole drilling
- » For the easy mounting of SKINTOP® cable glands on switchgear cabinets (Independent from wall thickness)

Product Make-up

- » High quality PETG
- » Suitable for cable glands/ fittings with metric threads

Note

- » Single template not for sale, only complete kit solution
- » Stencil with a notch to flag the size



Item No	Size	Included
61791330	M12-M25	5x M12, 5x M16, 5x M20, 5x M25
61791331	M32-M63	4x M32, 3x M40, 2x M50, 1x M63

SKINTOP EMC - Metric Thread

EMC CABLE GLAND FOR VSD DRIVES



#1547



SEARCH ON EXPRESS.ECSNZ.COM

Construction

- » Nickel plated brass with a special Polyamide (nylon plastic) insert.

Protection

- » IP68 - 5 bar

Temperature Rating

- » -30 to 100



Size	Clamping Range	Thread Length	Gland	Standard Locknut	Spike Locknut
Standard Thread					
M12	3.5 to 7mm	6.5	53112610	52103000	52103300
M16	4.5 to 9mm	7	53112620	52103010	52103310
M20	7 to 12.5mm	8	53112630	52103020	52103320
M25	9 to 16.5mm	8	53112640	52103030	52103330
M32	11 to 21mm	9	53112650	52103040	52103340
M40	19 to 28mm	9	53112660	52103050	52103350
M50	27 to 35mm	10	53112670	52103060	52103360
M63	34 to 45mm	15	53112680	52103070	52103370
M63 Plus	44 to 55mm	15	53112681	52103070	52103370
Extra Long Thread					
M20	7 to 12.5mm	12	53112635	52103020	52103320
M25	9 to 16.5mm	12	53112645	52103030	52103330
M32	11 to 21mm	15	53112655	52103040	52103340
M40	19 to 28mm	15	53112665	52103050	52103350
M50	27 to 35mm	15	53112675	52103060	52103360

SKINTOP MS-M BRUSH

EMC CABLE GLAND FOR VSD DRIVES

#1548



Features

- » Best EMC performance
- » Full 360 degree contact area with cable screen
- » Cables can be easily removed from the gland
- » Patented EMC design

Protection

- » IP 68 - 10 bar (M12 - M50)
- » IP 68 - 5 bar (M63)
- » IP 68 - 1 bar (M63 plus - M75)
- » IP 69 K (M12 - M63)

Application Range

For screen termination of both braid and tape screened cables.

Temperature Rating

- » Moving: -30 to 100
- » Fixed: -40 to 100



Size	Clamping Range	Thread Length	Gland	Standard Locknut	Spike Locknut
Standard Thread					
M20	7 to 13mm	8mm	53112507	52103020	52103320
M25	9 to 17mm	8	53112676	52103030	52103330
M32	11 to 21mm	9	53112677	52103040	52103340
M40	19 to 28mm	9	53112678	52103050	52103350
M50	27 to 35mm	10	53112679	52103060	52103360
M63	34 to 45mm	15	53112680	52103070	52103370
M63 Plus	44 to 55mm	15	53112681	52103070	52103370
M25 (Reduced Clamping)	6 to 13mm	8	53112671	52103030	52103330
Extra Long Thread					
M25	9 to 17mm	12	53113727	52103030	52103330
M32	11 to 21mm	15	53113728	52103040	52103340
M40	19 to 28mm	15	53113729	52103050	52103350
M50	27 to 35mm	15	53112673	52103060	52103360

ecs

EMC GLANDS



RENT ME | \$50 per / day

cimco-stainless-steel-hydraulic-chassis-punch.projects.ecsnz.com/rentals

SKINTOP BRUSH - ADD ON

CONVERT ANY SKINTOP GLAND INTO A VSD GLAND

Construction

- » Nickel plated brass housing & brass brush.

Protection

- » IP rating based on gland used

Temperature Rating

- » -70 to 200

Installation Instructions

1. Pass the cable through the gland
2. Pull through as much cable as required in the cabinet
3. Pull an extra 100mm of cable through the gland
4. Strip 10mm of insulation off the cable (don't strip the screen)
5. Pull cable out of the gland so stripped area is under the EMC flaps
6. Tighten the compression gland



#166

SEARCH ON EXPRESS.ECSNZ.COM



ICOTEK EMC Clamps

CLAMPS FOR CABLE SCREENS FOR WITHIN CABINETS

#167

SEARCH ON EXPRESS.ECSNZ.COM



Item No	Clamping Range	Mounting	Suitable VSD Cable
SFZ / SKL (For DIN Rail mounting)			
36850	1.5mm to 3mm	DIN Rail 35mm	
36855	3mm to 6mm	DIN Rail 35mm	
36860	6mm to 8mm	DIN Rail 35mm	
36865	9mm to 11mm	DIN Rail 35mm	4G1.5mm
36870	12mm to 16mm	DIN Rail 35mm	4G2.5mm / 4mm / 6mm
36875	17mm to 22mm	DIN Rail 35mm	4G10mm / 16mm
36880	23mm to 29mm	DIN Rail 35mm	4G25mm
LFZ / SKL (For bolt mounting)			
36910	1.5mm to 3mm	4.1mm Bolt Hole	
36915	3mm to 6mm	4.1mm Bolt Hole	
36920	6mm to 8mm	4.1mm Bolt Hole	
36925	9mm to 11mm	4.1mm Bolt Hole	4G1.5mm
36930	12mm to 16mm	4.1mm Bolt Hole	4G2.5mm / 4mm / 6mm
36935	17mm to 22mm	4.1mm Bolt Hole	4G10mm / 16mm
36940	23mm to 29mm	4.1mm Bolt Hole	4G25mm



SFZ / SKL (For DIN Rail mounting)



LFZ / SKL (For bolt mounting)

SKINTOP / INOX S/Steel Cable Glands

COMPACT STAINLESS STEEL CABLE GLANDS

#1341

SEARCH ON EXPRESS.ECSNZ.COM



Size	Clamping Range	Thread Length	Gland	Locknut
Standard				
M12	4 to 7mm	6.5mm	53806739	52032585
M16	6 to 10mm	7mm	53806740	52032615
M20	7 to 13mm	8mm	53806741	52032625
M25	9 to 17mm	8mm	53806742	52032635
M32	11 to 21mm	9mm	53806743	52032645
M40	19 to 28mm	9mm	53806744	52032655
Screened EMC				
M12	4 to 7mm	6.5mm	53806720	52032585
M16	6 to 10mm	7mm	53806722	52032615
M20	7 to 13mm	8mm	53806724	52032625
M25	9 to 17mm	8mm	53806726	52032635
M32	11 to 21mm	9mm	53806728	52032645
M40	19 to 28mm	9mm	53806731	52032655

SKINTOP DIX multi-inserts

GLAND INSERTS WITH MULTIPLE CABLE HOLES

#168



SEARCH ON EXPRESS.ECSNZ.COM

Item No	For Gland	Number of Holes	Hole Size
Multiple Hole Inserts			
53316220	M16	2	2 mm
53316230	M16	2	3 mm
53316240	M16	2	4 mm
53320250	M20	2	5 mm
53320260	M20	2	6 mm
53320340	M20	3	4 mm
53320353	M20	3	5.3 mm
53320440	M20	4	4 mm
53325260	M25	2	6 mm
53325350	M25	3	5 mm
53325360	M25	3	6 mm
53325370	M25	3	7 mm
53325450	M25	4	5 mm
53325540	M25	5	4 mm
53325640	M25	6	4 mm
53332270	M32	2	7 mm
53332280	M32	2	8 mm
53332290	M32	2	9 mm
53332380	M32	3	8 mm
53332470	M32	4	7 mm
53332560	M32	5	6 mm
53332650	M32	6	5 mm
53332840	M32	8	4 mm
53332850	M32	8	5 mm
53332940	M32	9	4 mm
53340480	M40	4	8 mm
53340580	M40	5	8 mm
53340590	M40	5	9 mm
53340670	M40	6	7 mm
53340860	M40	8	6 mm
53340969	M40	9	6.9 mm
53350166	M50	16	6 mm
53350680	M50	6	8 mm
Special Automation Inserts			
53611001	M20	1	ASI Flat Cable
53440980	M25	1	RJ45's
Solid Inserts for Sealing			
54113000	M12	Solid	Solid
54113010	M16	Solid	Solid
54113020	M20	Solid	Solid
54113030	M25	Solid	Solid
54113040	M32	Solid	Solid
54113050	M40	Solid	Solid
54113060	M50	Solid	Solid



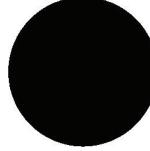
Standard Dix Inserts for multiple Cables



Standard AS-I Insert for Flat Cable (M20)



Standard Insert for RJ45 Ethernet Cable (M25)



Solid rubber for sealing off Glands

Sealing Pins

FOR SEALING OFF UNUSED HOLES

#168



SEARCH ON EXPRESS.ECSNZ.COM

Item No	Pin Diameter	Length
53100004	4mm	9mm
53100005	5mm	11mm
53100006	6mm	14mm
53100007	7mm	14mm
53100008	8mm	14mm
53100009	9mm	14mm



AX / AE SYSTEM PERFECTION
Compact and small enclosures.

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Shrink Tube

FOR APPLICATIONS IN CONTINUOUS USE

#109



SEARCH ON EXPRESS.ECSNZ.COM

Benefits

- » Fulfils high mechanical requirements for underwater and underground insulations and repairs.
- » Resistant and flexible protection

Application Range

- » 600V, 90°C low voltage applications in continuous use
- » For sealing and insulating cable splices, connections, end caps and sheaths.

Approvals

- » Approval for ESI 09-11

Design

- » Piece = 1.22 m



Item No	Description	Internal Shrinkage Range	Wall Thickness	Pieces / PU	Length
61810140	TBM0750	19.1 - 13.0	2	5	1.22m
61810150	TBM1100	27.9 - 17.7	2	3	1.22m
61810160	TBM1500	38.1 - 26.2	2	2	1.22m
61810170	TBM2050	52.1 - 33.0	2	1	1.22m
61810180	TBM3500	88.9 - 58.9	2.4	1	1.22m
61810190	TBM6700	170.2 - 111.8	2.8	1	1.22m
61810200	TBM9000	228.6 - 151.6	3	1	1.22m

Shrink Tube Protect Box

BLACK FLEXIBLE UL FLAME RETARDANT THIN WALLED HEAT SHRINK

#109



SEARCH ON EXPRESS.ECSNZ.COM

Application Range

- » General purpose, flexible heat shrink tubing for protection, insulation and bundling

Product features

- » Flame-retardant (except colour: clear)
- » Silicone-free
- » UV-resistant (only colour: black)

Benefits

- » Very flexible, UL 224 flame retardant thin-walled heat shrink tubing with excellent physical and mechanical properties
- » Convenient quantity for small consumers
- » Stackable boxes for easy storage

Norm references / Approvals

- » UL file no.: E476215

Product features

- » UV-resistant

Note

- » Not resistant against engine oils

Item No	Shrinking Range	Panel Thickness, Shrunk +- 0.1 mm	LENGTH
61742424	1.6 - 0.8	0.43	12
61742425	2.4 - 1.2	0.51	12
61742426	3.2 - 1.6	0.51	12
61742427	4.8 - 2.4	0.51	10
61742428	6.4 - 3.2	0.64	8
61742429	9.5 - 4.7	0.64	7
61742430	12.7 - 6.4	0.64	6
61742431	19.1 - 9.5	0.70	5



Economic Box Enclosures

ECONOMIC ENCLOSURE WITH HINGES AND QUICK RELEASE FASTENERS

#1594



SEARCH ON EXPRESS.ECSNZ.COM

Benefits

- » Tidy storage
- » Dust and moisture protection
- » Few work steps, free assembly in any position
- » Fast-snap-lock for easy handling
- » Good combination of quality and price

Product Features

- » Enclosure with hinges and quick release fasteners
- » Unique dovetail guide for frame or front panel (no standoff)
- » Integrated mounting panel (included in the enclosure price)
- » 3,5mm screw diameter for mounting plate

Certifications

- » -40°C to +85°C

Temperature Range

- » UV-resistant

Protection rating

- » IP67

Item No	Width (mm)	Height (mm)	Depth (mm)
53110130	150	150	90
53110131	150	200	100
53110132	180	180	150
53110133	200	300	160
53110134	300	400	160
53110135	400	500	160



PV Power Enclosures

IP65 ENCLOSURES FOR PV STRING COMBINING AND ISOLATING

1563



SEARCH ON EXPRESS.ECSNZ.COM

Description

PV Power IP65 Enclosures are manufactured in Europe from ASA (Acrylonitrile Styrene Acrylate). ASA material is extremely tough with good chemical resistance and thermal stability, UV stabilised, and outstanding resistance to weather and aging.

Benefits

- » Tamper evident security seal
- » Optional key lock available
- » Blanking Plates included
- » Made in Europe
- » UV stabilised

Norm references / Approvals

- » Material: Acrylonitrile Styrene Acrylate (ASA)
- » Complies with: IEC 60670-1 :2002 IEC 60670-24:2005
- » Rated voltage: 1000VDC
- » Resistance of insulating material to fire (glow wire test): 650°C
- » Protection degree IP65 / Insulation class II

SKU	Poles	Dimensions (WxHxD)	Rows
Enclosures			
PV-N4D	4	127 x 200 x 120	1 Row
PV-N8D	8	200 x 200 x 120	1 Row
PV-N12D	12	318 x 258 x 142	1 Row
PV-N24D	24	318 x 383 x 142	2 Rows
PV-N36D	36	318 x 507 x 142	3 Rows
Accessories			
PV-LOCKDP	Enclosure Lock		
PV-103547	Enclosure Earth Neutral Bar (14 + 9 + 8 holes)		



Rittal – The System.

Faster – better – everywhere.

Compact Enclosures, stainless steel & plastic.

System perfection, available online.

<https://express.ecsnz.com/rittal>



ENCLOSURES

POWER DISTRIBUTION

CLIMATE CONTROL

IT INFRASTRUCTURE

SOFTWARE & SERVICES

FRIEDHELM LOH GROUP

ICOTEK Split Gland System

FOR HIGH NUMBERS OF CABLE ENTRIES TO CABINETS

#1320



SEARCH ON EXPRESS.ECSNZ.COM



Item No	Type	Number of inserts	Dimensions (h x w)
42204	KEL B4	4	58 x 73
42248	KEL24/5	5	58 x 147
42241	KEL24/10	10	58 x 147
42164	KEL16/4	4	58 x 120
42168	KEL16/8	8	58 x 120

ICOTEK Circular Split Gland

FOR LARGE CONNECTORS THROUGH CABINETS

#1318



SEARCH ON EXPRESS.ECSNZ.COM



Item No	Type	Locknut	Thread	Numbers of Inserts
45035	KVT25	Included	M25	1
45036	KVT32	Included	M32	1
45215	KVT63-4	Included	M63	4

ICOTEK Split Gland System Inserts

INSERTS FOR SPLIT GLAND SYSTEM

#1319



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Grey	Black	Clamping Range	Type
41251	41351	Blanking Insert	BTK
41203	41303	3 - 4 mm	KT3
41204	41304	4 - 5 mm	KT4
41205	41305	5 - 6 mm	KT5
41206	41306	6 - 7 mm	KT6
41207	41307	7 - 8 mm	KT7
41208	41308	8 - 9 mm	KT8
41209	41309	9 - 10 mm	KT9
41210	41310	10 - 11 mm	KT10
41211	41311	11 - 12 mm	KT11
41212	41312	12 - 13 mm	KT12
41213	41313	13 - 14 mm	KT13
41214	41314	14 - 15 mm	KT14
41215	41315	15 - 16 mm	KT15
39901	39912	16 mm	KT16
39906	39907	2 x Ø 4 mm	KT2/4
41200	39904	2 x Ø 5 mm	KT2/5
41201	39905	2 x Ø 6 mm	KT2/6
41202	39916	2 x Ø 7 mm	KT2/7
39914	39915	4 x Ø 3 mm	KT4/3
39909	39911	4 x Ø 4 mm	KT4/4
39908	39910	4 x Ø 5 mm	KT4/5
39902	39903	for 1 ASI-cable	KT-ASI
39922	39924	for 2 ASI-cable	KT-ASI2



SPLIT GLAND - HOW THEY WORK

With these systems both the rubber insert and the plastic housing split in half. This allows very large pre-terminated cables to be passed into cabinets without having to cut off the connectors.

Ideal for circular motor connectors, RJ45's, PC mouse's etc. They are also more compact than conventional glands saving on both space and installation time.

EKD Kolibri Series

DRAGCHAIN FOR COMMON APPLICATIONS



#170

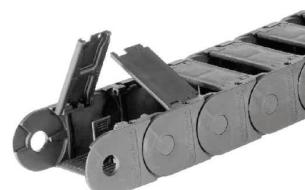


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Type	Bending Radius	Pitch	Inner Dimensions	Outer Dimensions
Without latches				
Kolibri 0	30	20	10 x 10	15 x 15
Kolibri 01	30	20	10 x 10	15 x 22
Kolibri 1	40 / 100	40	24 x 18	30 x 30
Kolibri 2	40 / 100 / 150 / 200	40	24 x 48	30 x 60
Kolibri 3	40 / 100	40	24 x 78	30 x 90
With latches				
Kolibri 02	30	20	10 x 24	15 x 37
Kolibri 03	20 / 30	20	10 x 39	15 x 51
Kolibri 05	35 / 70	30	18 x 25	22 x 38
Kolibri 06	35 / 70	30	18 x 36	22 x 48
Kolibri 10.0	40 / 75 / 100 / 150 / 200	35	23 x 34	30 x 50
Kolibri 11.0	40 / 75 / 100 / 150 / 200	35	23 x 44	30 x 60
Kolibri 12.0	40 / 75 / 100 / 150 / 200	35	23 x 64	30 x 80
Kolibri 13.0	40 / 75 / 100 / 150 / 200	35	23 x 79	30 x 95
Kolibri 14.0	40 / 150 / 200	35	23 x 109	30 x 125
Dividers	K10.0 to 14.0 Series			



Without Latches



With Latches

EKD PKK Series

DRAGCHAIN FOR HEAVY LOADS AND LONG TRAVEL LENGTHS



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Type	Bending Radius	pitch	Inner w options	Inner h	Outer w	Outer h
PKK 220	75/100/150/200/300	65	50/100/150/200	34	inner w + 30mm	50
PKK 320	100/150/200/250/300/400	90	100/150/200/300	51	inner w + 36mm	75

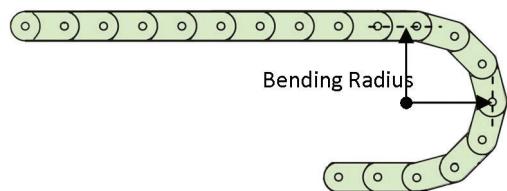
*More dragchain styles available on request



Dragchain Installation Tips

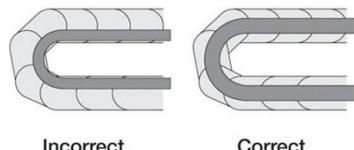
SELECTING THE CORRECT BENDING RADIUS

When selecting a dragchain it is important to select a bending radius that does not overstress the cables. Most of our cables include a "Minimum bending radius" rating. The dragchain radius should always be larger than the "Minimum bending radius" of cables.



PLACEMENT OF CABLE WITHIN THE DRAGCHAIN

When installing cables in dragchain allow slack on the cables so they sit in the centre of the dragchain. Otherwise when the dragchain bends it will pull the cables tight and overstress them.



Incorrect

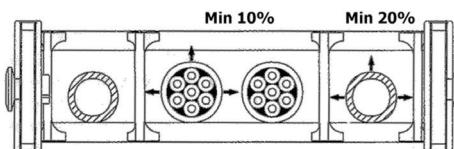
Correct

*We recommend calling our technical team when selecting dragchains

EXTRA SPACE ALLOWANCE

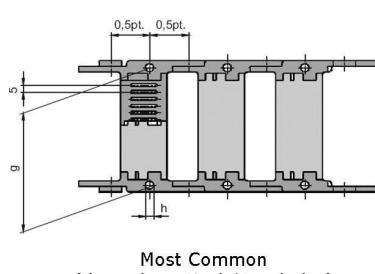
When installing cables and other items into a dragchain allow the following extra space within the dragchain.

Cables	Add 10% to the OD
Pneumatic Hoses	Add 15% to the OD
Hydraulic Hoses	Add 20% to the OD



MOUNTING OPTIONS

Our dragchains do not require expensive end connectors. Every chain link includes mounting holes which allows for simple mounting and easy maintenance.



Most Common
(through vertical / top holes)



Alternative Mounting
(through horizontal holes)



FLEXIMARK Single Core Marking - LF

FLEXI-PRINT LABELS

Flexi-Print Label Construction

- » Halogen Free polyester. Resistant against oils, water, common chemicals and UV Resistant

Feature

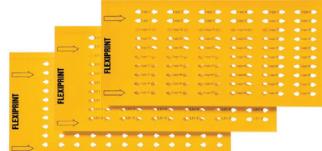
- » Can be printed on using most common Laser printers

#174

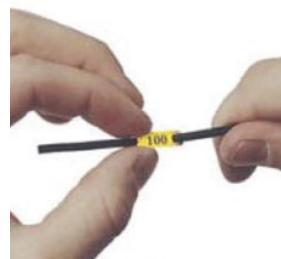
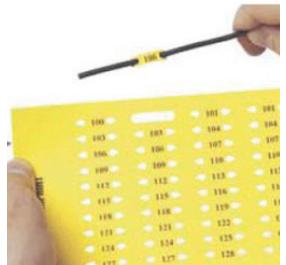
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Item No	Suitable App Wire (V90)	Suitable Control Cable (110)	Made from P/N	Labels / sheet	Pack Size
LAPP-FLEXIPRINT-1	0.5mm to 0.75mm	0.25mm to 0.75mm	83254400	60	1 sheet
LAPP-FLEXIPRINT-2	0.5mm to 1.5mm	0.75mm to 1.5mm	83254420	60	1 sheet
LAPP-FLEXIPRINT-3	0.5mm to 1.5mm	1.5mm to 2.5mm	83254460	60	1 sheet



4.5 Seconds to mark a cable



FLEXIMARK PT Collar Marking - LMB

FLEXI-PRINT LABELS

Flexi-Print Label Construction

- » Halogen Free polyester. Resistant against oils, water, common chemicals and UV Resistant

Feature

- » The label inserts are compatible with other common collar brands available
- » The inserts come on A5 sheets and can be printed with standard Laser printers
- » There is no need to purchase a special printer
- » Two colours per sheet: Yellow on one side, White on the other

#1492

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Item No	Description	Suitable App Wire (V90)	Suitable Control Cable (110)	Cable Ø	Pack Size
15mm Clear Holders					
61823000	PT 02/15		0.25 to 1.5mm ²	1.3 to 3mm	200
61823010	PT 10/15	0.5 to 1.5mm ²	1.5 to 4mm ²	2.5mm to 5mm	200
61823020	PT 20/15	2.5 to 6mm ²	2.5 to 16mm ²	4mm to 10mm	100
61823030	PT 30/15	10 & 16mm ²	16mm ² +	8mm to 16mm	50
21mm Clear Holders					
61823040	PT 02/21		0.25 to 1.5mm ²	1.3 to 3mm	200
61823050	PT 10/21	0.5 to 1.5mm ²	1.5 to 4mm ²	2.5mm to 5mm	200
61823060	PT 20/21	2.5 to 6mm ²	2.5 to 16mm ²	4mm to 10mm	100
61823070	PT 30/21	10 & 16mm ²	16mm ² +	8mm to 16mm	50

Item No	Description	Side 1	Side 2	Suitable Holders	Labels / A5 Sheet	Pack Size
Yellow Label Inserts						
83254680	Laser Printable Label	Yellow	White	Both 15 & 21mm	48	1 sheet (A5)

FLEXIMARK Label Holders - LFL

FOR OVERALL CABLE MARKING

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Flexi-Print Label Construction

Halogen Free polyethylene

Feature

- » UV-filter protects the label from fading
- » Can be used outdoors
- » We recommend using black cables ties for outdoors
- » Labels can be printed with Laser printers.



Item No	Description	Size	Labels / Sheet	Internal Size	External Size	Pack Size
Clear						
83254963	Clear Label Holder			35mm x 10.4mm	47mm x 12.2mm	50
83254965	Clear Label Holder			70mm x 10.4mm	82mm x 12.2mm	50
Black						
61831041	Black Cable Tie (98mm x 2.5mm)					1000
Yellow						
83254670	Yellow Marker Insert	35mm x 9.5mm	150			1 sheet (A4)
83254701	Yellow Marker Insert	70mm x 9.5mm	84			1 sheet (A4)

FLEXIMARK Wrap-Around Labels - LCK

FOR OVERALL CABLE MARKING

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Flexi-Print Label Construction

Halogen Free polyethylene.

Features

- » Quick and cost effective cable marking system
- » Very low profile system which is useful for running pre-marked cables through conduit
- » Labels can be printed with Laser printers



Item No	Description	Printable Size	Suitable Cable OD	Labels / Sheet	Pack Size
83256144	Wrap around label (LCK35)	25mm x 19mm	6 to 12mm	40	1 sheet (A4)
83256146	Wrap around label (LCK40)	25mm x 25.4mm	8 to 22mm	24	1 sheet (A4)
83256148	Wrap around label (LCK45)	25.5mm x 25.4mm	8 to 37mm	16	1 sheet (A4)

FLEXIMARK Software

PRINTING SOFTWARE FOR FLEXIMARK

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Features

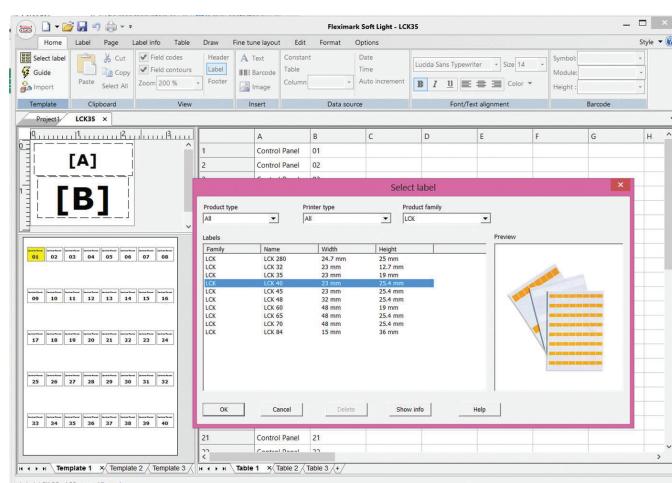
- » Free to download and no expiry date
- » Lines up the printing area for each label type
- » Import label data direct from Microsoft Excel
- » Many smart features including automatic number sequences.

Requirements

Windows Operating System

Getting Started

Contact ECS for a free getting started tutorial and a link to the download site



COLOUR CODING FOR POWER CABLES

Accepted Standards AS/NZS 3000:2007

For industrial factory and machine applications many of the cables are being designed and manufactured in Europe. Some cables use AS/NZS colour coding but many of the high end cables (including flex's and robotic cables) will use the European VDE colour coding standard.

AS/NZS Standard, European and number coded standards are accepted in Australia (AS/NZS 3000:2007 ref 3.8.3.3)



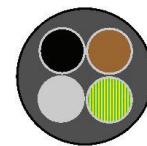
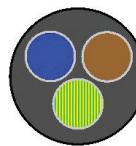
AS/NZS STANDARD

Cores	Application	Earth	Neutral
Phases			
	Single Phase	Three Phase	3 Phase + N
	Green/Yellow	Green/Yellow	Green/Yellow
	Black		Black
	Red	Red	Red
	White	White	White
	Blue	Blue	Blue



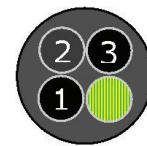
VDE EUROPEAN STANDARD

Cores	Application	Earth	Neutral
Phases			
	Single Phase	Three Phase	3 Phase + N
	Green/Yellow	Green/Yellow	Green/Yellow
	Blue		Blue
	Brown	Brown	Brown
	Black	Black	Black
	Grey		Grey



NUMBER CODED

Cores	Application	Earth	Neutral
Phases			
	Single Phase	Three Phase	3 Phase + N
	Green/Yellow	Green/Yellow	Green/Yellow
2			4
1	1	1	1
	2	2	2
	3	3	3



CROSS-REFERENCE BETWEEN STANDARDS

	AS/NZS	European	Number Coded
Phase 1	Red	Brown	1
Phase 2	White	Black	2
Phase 3	Blue	Grey	3
Neutral	Black	Blue	4
Earth	Green/Yellow	Green/Yellow	Green/Yellow

Colour Coding for Unitronic Data Cables

DIN 47100 INTERNATIONAL COLOUR CODING STANDARD

Colour	Core	Pair
White	1	1
brown	2	1
green	3	2
yellow	4	2
grey	5	3
pink	6	3
blue	7	4
red	8	4
black	9	5
violet	10	5
grey/pink	11	6
red/blue	12	6
white/green	13	7
brown/green	14	7
white/yellow	15	8
yellow/brown	16	8
white/grey	17	9
grey/brown	18	9
white/pink	19	10
pink/brown	20	10
white/blue	21	11
brown/blue	22	11
white/red	23	12
brown/red	24	12
white/black	25	13
brown/black	26	13
grey/green	27	14
yellow/grey	28	14
pink/green	29	15
yellow/pink	30	15
green/blue	31	16
yellow/blue	32	16
green/red	33	17
yellow/red	34	17
green/black	35	18
yellow/black	36	18
grey/blue	37	19
pink/blue	38	19
grey/red	39	20
pink/red	40	20

AWG to mm² Conversion

CONTROL CABLE WITH UL APPROVALS

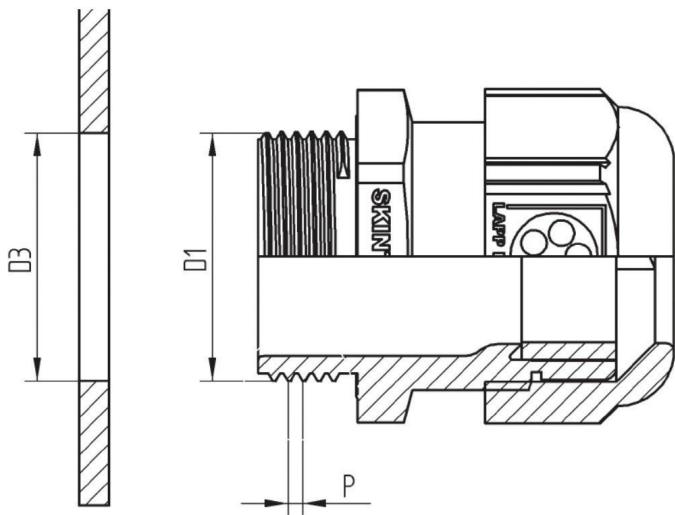


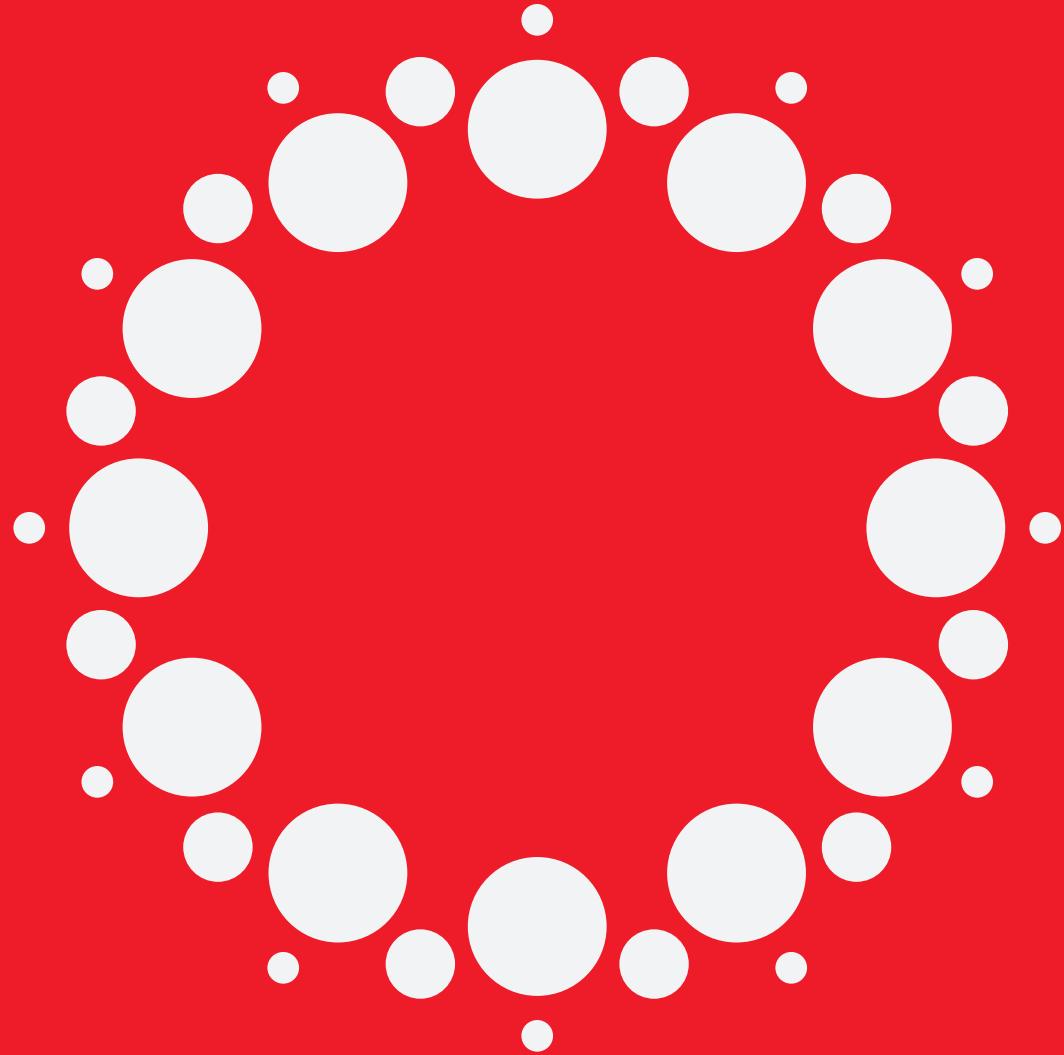
AWG	Actual mm ²	Closest Size
1	42.4	
2	33.6	
4	21.2	
6	13.3	
8	8.37	
10	5.26	6mm ²
12	3.31	4mm ²
14	2.08	2.5mm ²
16	1.31	1.5mm ²
18	0.823	1mm ²
20	0.519	0.75mm ²
22	0.324	0.5mm ²
24	0.205	0.25mm ²
26	0.128	0.14mm ²
28	0.0804	

Thread Sizes

HOLE SIZES FOR SKINTOP GLANDS

Size	Pitch	ø D1	Hole size ø D3
Metric Thread			
M12 x 1,5	1,5	12	12,3 ± 0,2
M16 x 1,5	1,5	16	16,3 ± 0,2
M20 x 1,5	1,5	20	20,3 ± 0,2
M25 x 1,5	1,5	25	25,3 ± 0,2
M32 x 1,5	1,5	32	32,3 ± 0,2
M40 x 1,5	1,5	40	40,4 ± 0,3
M50 x 1,5	1,5	50	50,4 ± 0,3
M63 x 1,5	1,5	63	63,4 ± 0,3
PG Thread			
PG 7	1,27	12,5	13,0 ± 0,2
PG 9	1,41	15,2	15,7 ± 0,2
PG 11	1,41	18,6	19,0 ± 0,2
PG 13,5	1,41	20,4	21,0 ± 0,2
PG 16	1,41	22,5	23,0 ± 0,2
PG 21	1,558	28,3	28,8 ± 0,2
PG 29	1,558	37,0	37,5 ± 0,3
PG 36	1,558	47,0	47,5 ± 0,3
PG 42	1,558	54,0	54,5 ± 0,3
PG 48	1,558	59,3	59,8 ± 0,3





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