



New Zealand 2017 Q4
Electrical Product Selection Guide

CABLE / ACCESSORIES / SWITCHGEAR / SOLAR / AUTOMATION



 **LAPP GROUP**

LS

MOXA

 **wieland**



5000 products and over 1,000,000 metres of cable in our 5000m² warehouse, we are committed to holding the right products for you.



ECS is a leading supplier for electrical and automation products across New Zealand.

Founded in 1983 we are a New Zealand family owned business spanning two generations. We began by designing and manufacturing automated machinery for a range of industries including dairy production machinery and production machinery for the construction industry. Our relationships with our suppliers such as LAPP KABEL in Germany was initiated through our own demand for high quality products for our production.

Over the last 30 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 KABEL, Wieland Electric, MOXA Networking and LS products.

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.

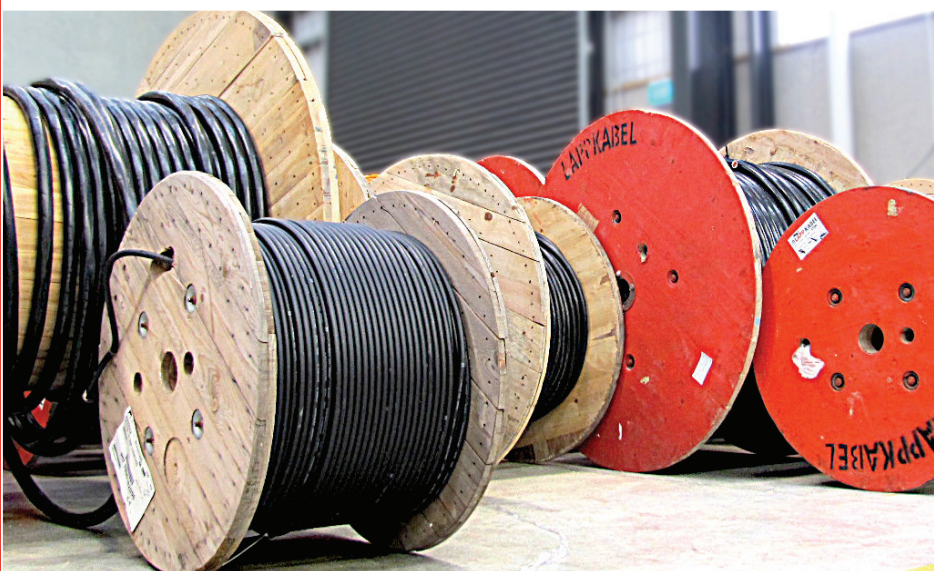
With our well established logistics network, we are able to deliver products to customers from Kaitia to Invercargill in just one working day.

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.



FREE PHONE 0800 849 2211



 **LAPP GROUP**

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LS

ECS Partners



The company was founded in 1957 by Oskar Lapp with ÖLFLEX® the first industrially produced signal cable in the world. Today Lapp Cables produces cables and conductors for different industries and markets: mechanical and systems engineering, the automotive industry, MSR technology, electrical and installations engineering, EDC and more.

Lapp Cables products are primarily produced in the Lapp Cables group's own production plants. We currently supply 40,000 standard items from stock. We also develop and produce cables and conductors to customer specifications.



Moxa provides a full spectrum of quality products for industrial networking, computing, and automation, and maintains a distribution and service network that reaches customers in more than 70 countries

Our products have connected over 30 million devices worldwide in a wide range of applications, including factory automation, smart rail, smart grid, intelligent transportation, oil & gas, marine, and mining

By continually improving staff expertise in a variety of technologies and markets, we aim to be the first choice for industrial automation solutions.



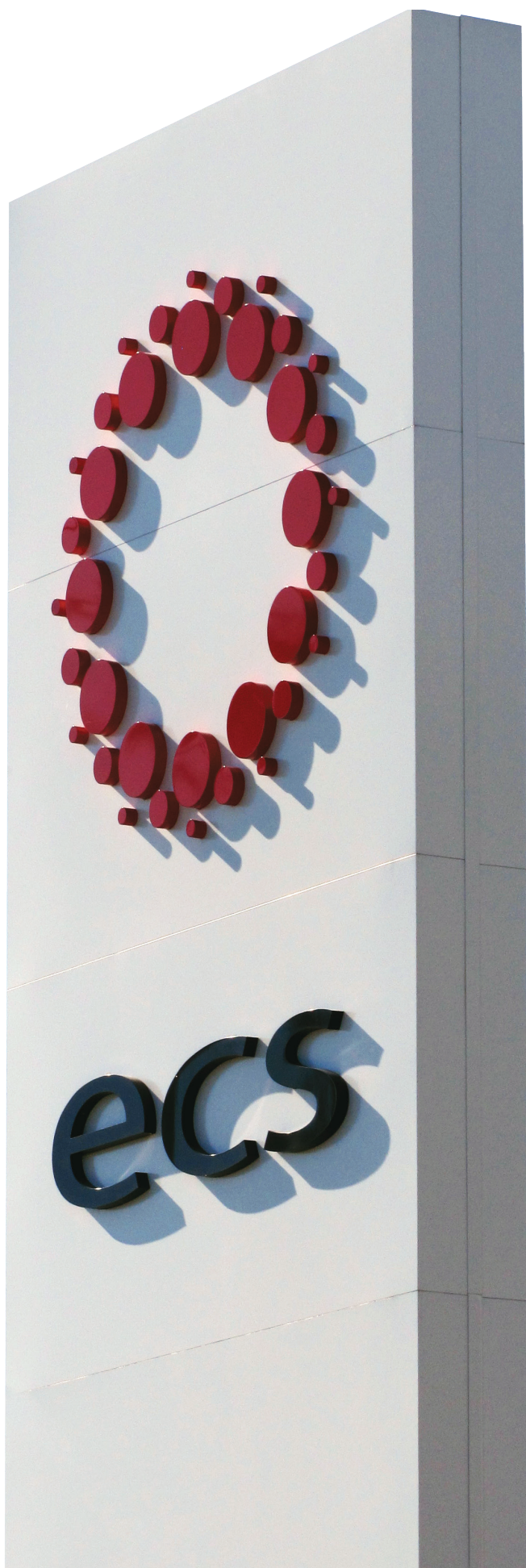
LSIS is a total solution provider of electric power systems/automations, smart grid solutions and photovoltaic systems. We offer the highest quality and eco-friendly green innovations to our world-wide customers.

Our business includes High Voltage Direct Current Transmission System, Smart grid solutions like AMI and EMS and Electric vehicle core components like EV relay and PCUs. Also, as the first photovoltaic company in Korea, LSIS has developed world's first PV module which can be installed on the surface of water. By providing innovative green components, products and solutions, LSIS is highly contributing to the reduction of world carbon imprint.



Wieland Electric products set the standards in pluggable connection technology for building automation and automation technology. This achievement makes us one of the technology leaders and leading innovators worldwide.

Wherever energy or signals are distributed, Wieland stands for a green light for innovative ideas. Because: Contacts are green.




ÖLFLEX®

Connection and control cables

ÖLFLEX® POWER AND CONTROL CABLES

ÖLFLEX® is used in machinery, machine tools, system and appliance engineering, measuring, control, heating and air conditioning technologies. For permanent connections or in cable chains, halogen-free or internationally certified, you can choose from our comprehensive range of standard products.


UNITRONIC®

Data Cables

UNITRONIC® DATA COMMUNICATION SYSTEMS

Lapp produces a full range of data cables for fast and secure transfers of large volumes of data. From machine electronics and bus systems to super-fast LAN data networks or highly-versatile applications: We have the data cables you need for virtually any situation.


ETHERLINE®

Industrial Ethernet components

ETHERLINE® DATA COMMUNICATION SYSTEMS

ETHERLINE® include services and security systems incorporating firewall solutions, in addition to distribution components such as switches, routers, cables and plug connectors.


HITRONIC®

Fibre optic cables

HITRONIC® OPTICAL TRANSMISSION SYSTEMS

HITRONIC® fibre optic cables are designed to transfer large volumes of data. Communications media via fibre optics are fast, efficient, and secure. Not even electromagnetic interference can affect HITRONIC® fibre optic cable.


EPIC®

Industrial connectors

EPIC® INDUSTRIAL CONNECTORS

When we talk about secure connections, you can take us at our word. EPIC® industrial connectors produce an absolutely secure connection in combination with ÖLFLEX® cables.


SKINTOP®

Cable Glands

SKINTOP® CABLE GLANDS

SKINTOP® cable glands guarantee secure connections every time. Simply thread the cable and twist. That's all! Your cables are perfectly centered, secured, hermetically sealed, and ready for action. Choose from a wide range of models in plastic or brass.


SILVYN®

Cable protection and guiding systems

SILVYN® PROTECTIVE CABLE CONDUIT SYSTEMS

In many applications cables have to be additionally protected against mechanical and chemical stress. For this type of application, Lapp Group can supply the universal SILVYN® protective cable conduit program.


FLEXIMARK®

Marking systems

FLEXIMARK® CABLE MARKING PRODUCTS

Labels on single cores, cables, and control cabinets need to remain legible for years to come. This is the best way to keep things well organized and avoid potential problems. From plastic to durable stainless steel, manual or electronic identification, with FLEXIMARK® you can be sure that your labels will last a lifetime.

**LAPP KABEL don't just manufacture
We develop cables and test cables**



Centre for Competence & Testing

The Lapp Group's 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.

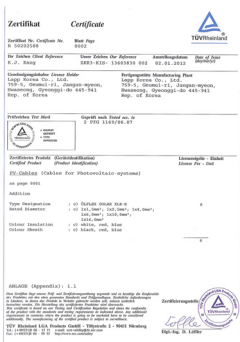
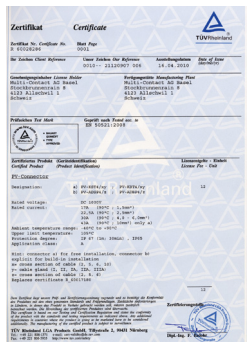
Independantly Tested

Certificates, 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.



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

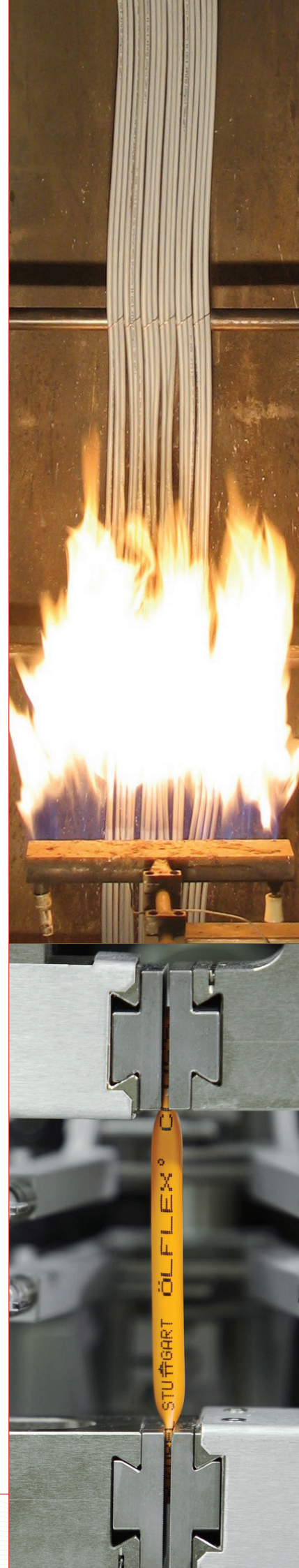
Cables are tested on a variety of linear test rigs which test specific endurance flexing scenarios.

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.



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People order online everyday with Trade Me, Grab One, Amazon, but electrical products have been neglected. Today you are busier than ever so you don't have time to backwards and forwards with suppliers over simple things like stock levels, pricing or product specifications. ECS EXPRESS is here to provide all the information you need at your fingertips.







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A dynamic personalised smart search tool that learns your purchasing habits

Register with EXPRESS and gain access to great features like EXPRESS FIND - a fast and efficient way to search for your most commonly purchased products. Search for a Part Number, part of a description or your order number and filter by frequency, most recent or by part number. With just one click, you can reorder your favourite common products. We measure service in seconds.



EXPRESS Find My Products

FREQUENCY		MOST RECENT		PART NUMBER	
X	Search for a Part Number, part of the Description or Your Order Number...				SEARCH
Part No.	Image	Description	Last Purchased	In Stock	
PV-90946e		1000v 32A Noark DC Isolator in Box	18 Aug 2017		Add to cart
PV-85515		Double pole PV Fuse Holder for Solar	22 Dec 2016		Add to cart

My Account Order Tracking System

Search and Track your Orders, Deliveries and Invoices

Gain access to order, delivery and invoice tracking all in one location. Using "My Orders" you can drill down for comprehensive order details including backorders and Track & Trace numbers. My Deliveries and My Invoices provide printable delivery and invoice records including product details, order and delivery numbers, payment details, status updates and account statement. With EXPRESS you get full control and peace of mind.

PENDING (0)		ALL (18)		OPEN (0)		OVERDUE (0)	
X	Search for an Order Number or Part Number...					SEARCH	
		PROCESSED BY: Susan DDI 07 903 2132 Susan@ecsnz.com		SALES ORDER: 256583 REQUEST DATE: 17 Jun 2016		ORDER NUMBER: 4193 ORDER DATE: 17 Jun 2016	
				SHIP TO CODE: Awesome Electrical			
Part No.	Description	Ordered	B/O	Shipped	Delivery No.	Ship Date	Shipping Method
 PV-85515	Ex9FP double pole PV Fuse Holder 1000VDC	8	-	8	269896	17 Jun 2016	COURIERPOST SA71509312



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ÖLFLEX V90HT Appliance Wire

TINNED CONDUCTORS WITH 1000V RATING

#292



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Construction

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

Temperature Rating

- 20 to 105

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
Green / Yellow	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	38010014	38010114	38010214	38010314	38010414	38010514	38010614	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		Unenclosed		Touching		Enclosed		Single Phase Voltage Drop
	10	10	10	10	10	10	10	10	
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.

ACCESSORIES Lugs

LUGS FOR SINGLE CORE TERMINATION

#13



SEARCH ON EXPRESS.ECSNZ.COM

Conductor	Bolt Hole Size (mm)					
	4	5	6	8	10	12
4mm ²	61796570	61796580	61796590			
6mm ²	61796600	61796610	61796620	61796630		
10mm ²		61796640	61796650	61796660	61796670	
16mm ²		61796690	61796700	61796710	61796720	61796730
25mm ²			61796740	61796750	61796760	61796770
35mm ²			61796780	61796790	61796800	61796810
50mm ²			61796820	61796830	61796840	61796850
70mm ²				61796860	61796870	61796880
95mm ²				61796890	61796900	61796910
120mm ²					61796930	61796940
150mm ²						61796960
185mm ²						61796990



90 XLPE/PVC - SWITCHBOARD FLEX

TPR 90 - Earth

Construction - Black XLPE/PVC

- Flexible Class 5 bare copper
- Double insulated
- X90 XPLE inner insulation
- 5V-90 PVC outer sheath

Construction - Black TPR90

- Super Flexible Class 6 bare copper
- Double insulated
- TPR rubber inner insulation
- TPR rubber outer sheath

Construction - Earth TPR90

- Super Flexible Class 6 bare copper
- Single insulated:
- TPR rubber outer sheath

Minimum Bending Radius

- TPR90 Flexing: 15 x cable OD
- TPR90 Fixed: 5 x cable OD
- PVC Fixed: 4 x cable OD

Temperature Rating

- -30 to 90 degrees

Voltage Rating

- 600/1000V

TPR90 Water Submergibility

- TPR90: HD22.16.S1

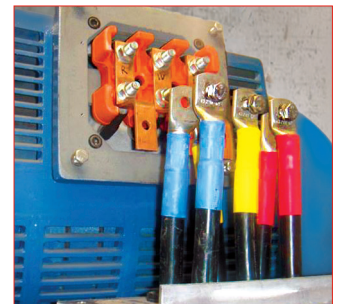
Standards

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








Application

- Suitable for fixed installation mains power distribution
- UV Resistant

Part No	Type	Conductor	Cable OD
Black - Bare Copper			
TF-G-136481	XLPE/PVC	10 mm ²	8.2mm
TF-G-136482	XLPE/PVC	16 mm ²	9.3mm
TF-G-036468	XLPE/PVC	25 mm ²	10.9mm
TF-G-036469	XLPE/PVC	35 mm ²	11.9mm
TF-G-036470	XLPE/PVC	50 mm ²	13.8mm
TF-G-036471	XLPE/PVC	70 mm ²	15.8mm
TF-G-036472	XLPE/PVC	95 mm ²	18.1mm
TF-G-036473	XLPE/PVC	120 mm ²	19.4mm
TF-G-036474	XLPE/PVC	150 mm ²	23.5mm
TF-G-036475	XLPE/PVC	185 mm ²	25.3mm
TF-G-036476	XLPE/PVC	240 mm ²	27.6mm
TF-G-036477	XLPE/PVC	300 mm ²	31.3mm
3801794	TPR90	400 mm ²	36.6mm
3801795	TPR90	500 mm ²	40.7mm
Green / Yellow - Single Insulated			
3801522	TPR90	16 mm ²	8.2mm
3801523	TPR90	25 mm ²	10mm
3801524	TPR90	35 mm ²	11.4mm
3801525	TPR90	50 mm ²	12.5mm
3801526	TPR90	70 mm ²	15.2mm
3801527	TPR90	95 mm ²	17mm
3801528	TPR90	120 mm ²	18.2mm



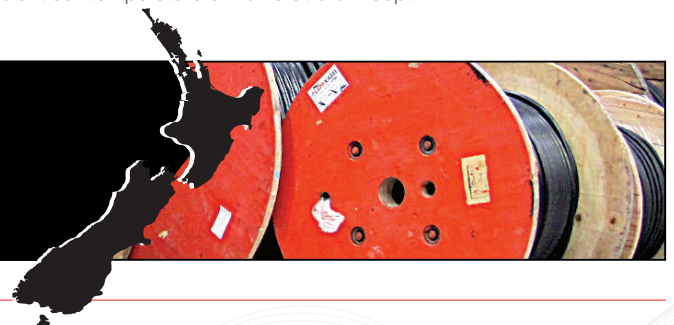
CURRENT RATINGS FOR 90 DEGREE SWITCHBOARD FLEX

Conductor cross-sectional area	Unenclosed				Enclosed				Single Phase Voltage Drop
	Spaced		Spaced from surface		Touching		Conduit in air		
									
mm²	A	A	A	A	A	A	A	A	mV/A/m
10	92	89	90	76	72	72	72	64	4.67
16	121	121	121	101	95	95	95	86	2.94
25	165	160	160	138	127	127	127	121	1.87
35	204	198	193	171	160	160	160	138	1.36
50	253	242	237	209	193	193	193	171	1.01
70	319	308	303	264	248	248	242	209	0.71
95	396	385	374	330	308	308	286	253	0.53
120	462	451	435	385	358	358	341	297	0.43
150	534	517	495	446	413	413	385	341	0.36
185	627	605	572	517	479	479	440	391	0.31
240	748	726	682	616	572	572	523	462	0.26
300	869	847	792	715	671	660		534	0.23
400	1012	990	924	836	781	770		616	0.21
500	1188	1155	1067	957	902	891		715	0.2

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

NO CUTTING FEES!

Stocked right here in NZ



Flexible 110° - Low Smoke - Halogen Free

CONSTRUCTION

Conductors

Annealed plain copper conductor
super flexible Class 6

Insulation

White Rubber R-E-110

Outer Sheath

Black Rubber E-110-R

Colour Of Outer Sheath

Black

Application

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

FEATURES, RATINGS & APPROVALS

Temperature Range

-25°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	10mm	9.0mm
TF-G-012569-BK	16mm	10.3mm
TF-G-012570-BK	25mm	11.9mm
TF-G-012571-BK	35mm	13.3mm
TF-G-022907-BK	50mm	15.0mm
TF-G-012573-BK	70mm	17.1mm
TF-G-012574-BK	95mm	19.5mm
TF-G-012575-BK	120mm	21.5mm
TF-G-012576-BK	150mm	23.9mm
TF-G-012577-BK	185mm	26.5mm
TF-G-012579-BK	240mm	29.3mm
TF-G-012581-BK	300mm	32.4mm

CURRENT RATINGS FOR 110 LSZH - SWITCHBOARD FLEX

	Unenclosed				Exposed to sunlight		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
Conductor										
mm2	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





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

CONSTRUCTION

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

Colour Of Outer Sheath

Red

FEATURES, RATINGS & APPROVALS

Temperature Rating

110°C

Voltage Rating

0.6/1kV

Minimum bending radius

8 x cable OD

Features

Low Smoke & Halogen Free

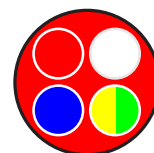
Standards

- 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

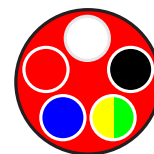
Item No.	Conductor	Cable OD
2 Core and Earth		
TF-G-025236	1.5mm	11.2mm
TF-G-025237	2.5mm	12.3mm
TF-G-025238	4mm	12.9mm
TF-G-022522	6mm	13.8mm
3 Core and Earth		
TF-G-018996	1.5mm	12.3mm
TF-G-025239	2.5mm	13.5mm
4 Core and Earth		
TF-G-025242	2.5mm	14.8mm
TF-G-025243	4mm	16.1mm
TF-G-022524	6mm	17.6mm
TF-G-022528	16mm	23.2mm
Multi-Core - 12 Core		
TF-G-036446	12G 1.5mm	19.4mm



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
mm2	2	3&4	2	3&4	2	3&4	2	3&4
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

Cable Ferrules

INSULATED FERRULES (SINGLE AND DOUBLE ENTRY)

#179



SEARCH ON EXPRESS.ECSNZ.COM

Part No.	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
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			



Standard Loose



XL Loose



STRIPS



Double Wire



Assorted Packs

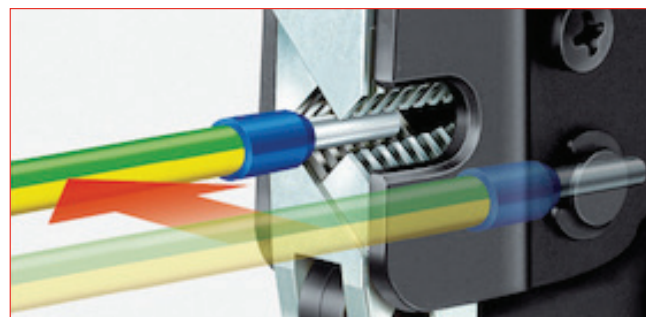
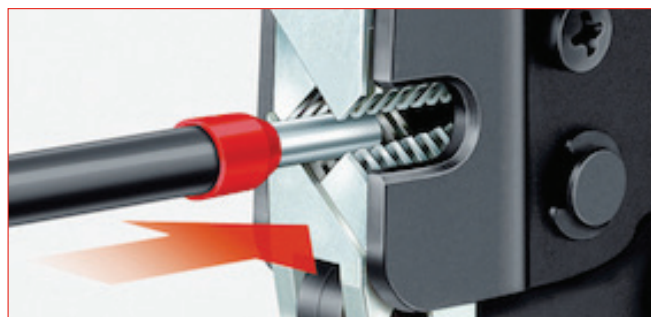
Ferrule & Strip Tools

QUALITY TOOLS FOR CRIMPING

#17



SEARCH ON EXPRESS.ECSNZ.COM



61813742



61813737



61805300



61735800

Part No.	Product Description	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
61805300	Quadro	Multi-function: Strips Twists and Crimps	0.5mm to 2.5mm ²	220g	Trapezoid
61735800	Easy Strip 2 including blades	Self-adjusting cutting and stripping tool	0.02 to 10mm ²	180g	

Insulated Cable Lugs

INSULATED CONNECTIONS

#180



SEARCH ON EXPRESS.ECSNZ.COM

Part 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	100
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



SEARCH ON EXPRESS.ECSNZ.COM



61722050



61722070

Part No.	Description	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

ÖLFLEX 100 Series

MULTI-CORE FLEX WITH COLOURED CORES

#20

SEARCH ON EXPRESS.ECSNZ.COM



LAPP KABEL STUIGART ÖLFLEX® CLASSIC 100

CE

Construction

Flexible Class 5 fine wire stranding,
PVC inner insulation material and 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 (>=1.5mm)

Part 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)

ÖLFLEX 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 and
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)

Part No.	Conductor Size	Description	Conductor Colours	OD
2 core (no earth)				
3808220	0.75mm	2 core	Blue, Brown	6mm
3808221	1mm	2 core	Blue, Brown	7mm
3807121	1.5mm	2 core	Blue, Brown	9.5mm
3807122	2.5mm	2 core	Blue, Brown	11.5mm
3807123	4mm	2 core	Blue, Brown	13mm
3 core (2 core + earth)				
3808230	0.75mm	2 core + earth	Blue, Brown, Green/Yellow	7mm
3807140	1mm	2 core + earth	Blue, Brown, Green/Yellow	7.5mm
3807141	1.5mm	2 core + earth	Blue, Brown, Green/Yellow	10.5mm
3807142	2.5mm	2 core + earth	Blue, Brown, Green/Yellow	11.9mm
3807143	4mm	2 core + earth	Blue, Brown, Green/Yellow	13.9mm
3807144	6mm	2 core + earth	Blue, Brown, Green/Yellow	14.4mm
4 core (3 core + earth)				
3807161	1.5mm	3 core + earth	Brown, Black, Grey, Green/Yellow	11.3mm
3807162	2.5mm	3 core + earth	Brown, Black, Grey, Green/Yellow	13.4mm
3807163	4mm	3 core + earth	Brown, Black, Grey, Green/Yellow	15.4mm
3807164	6mm	3 core + earth	Brown, Black, Grey, Green/Yellow	17.3mm
5 core (4 core + earth)				
3807181	1.5mm	4 core + earth	Brown, Black, Grey, Blue, Green/Yellow	12.7mm
3807182	2.5mm	4 core + earth	Brown, Black, Grey, Blue, Green/Yellow	15.2mm
3807183	4mm	4 core + earth	Brown, Black, Grey, Blue, Green/Yellow	17.6mm
3807184	6mm	4 core + earth	Brown, Black, Grey, Blue, Green/Yellow	18.8mm
16001093 / 3807185	10mm	4 core + earth	Brown, Black, Grey, Blue, Green/Yellow	28mm
16001113 / 3807186	16mm	4 core + earth	Brown, Black, Grey, Blue, Green/Yellow	31.9mm
16001133 / 3807187	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)

ÖLFLEX 110 Series

MULTI-CORE FLEX WITH NUMBERED CORES

#5



SEARCH ON EXPRESS.ECSNZ.COM



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

Grey	Black	Type	OD
0.5mm Conductors (with earth)			
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 Conductors (with earth)			
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 Conductors (with earth)			
1119203		2 core + earth	6mm
1119204		3 core + earth	6.5mm
1119205		4 core + earth	7.1mm
1119207		6 core + earth	8mm
1119209		8 core + earth	10mm
1119210		9 core + earth	10.2mm
1119212		11 core + earth	10.5mm
1119214		13 core + earth	11.2mm
1119218		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

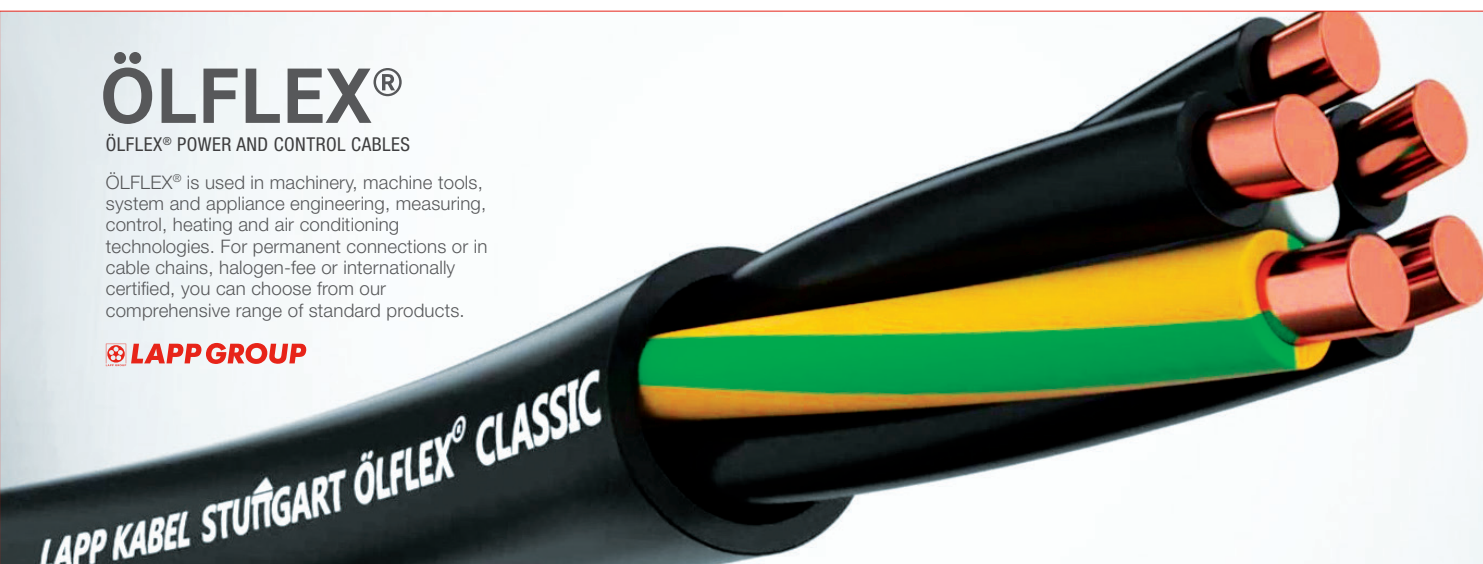
Grey	Black	Type	OD
1.5mm Conductors (with earth)			
1119303		2 core + earth	6.7mm
1119304	1119879	3 core + earth	7.2mm
1119305	1119880	4 core + earth	8.1mm
1119307	1119881	6 core + earth	8.9mm
1119309		8 core + earth	11.4mm
1119312	1119882	11 core + earth	12mm
1119318	1119883	17 core + earth	14.4mm
1119321		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 Conductors (with earth)			
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		11 core + earth	14.8mm
1119418		17 core + earth	17.8mm
1119425		24 core + earth	20.8mm
0.5mm Conductors (no earth)			
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 Conductors (no earth)			
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
1mm Conductors (no earth)			
1119852		2 core - No Earth	5.7mm
1119853		3 core - No Earth	6mm
1119854		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 Conductors (no earth)			
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 Conductors (no earth)			
1119952		2 core - No Earth	7.5mm

ÖLFLEX®

ÖLFLEX® POWER AND CONTROL CABLES

ÖLFLEX® is used in machinery, machine tools, system and appliance engineering, measuring, control, heating and air conditioning technologies. For permanent connections or in cable chains, halogen-free or internationally certified, you can choose from our comprehensive range of standard products.

LAPP GROUP



MULTI-CORE



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

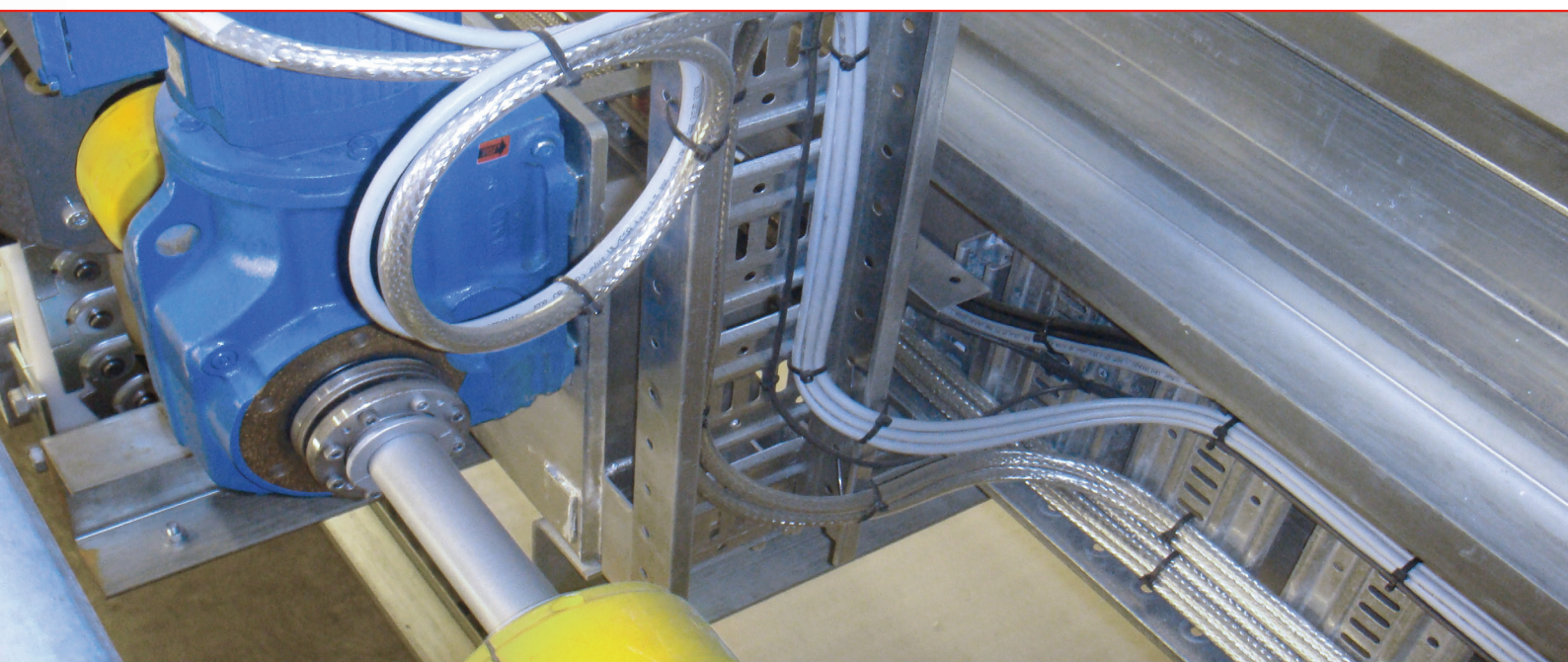
Nominal Voltage

- 300/500V

Test Voltage

- 4000V

Part No.	Cores	Conductor	Type	OD	Suitable Gland
0.5mm Conductor					
1135752	2	0.5mm	2 core - (No Earth)	7mm	M16
1135003	3	0.5mm	2 core + earth	7.3mm	M16
1135004	4	0.5mm	3 core + earth	7.9mm	M16
1135005	5	0.5mm	4 core + earth	8.4mm	M20
1135007	7	0.5mm	6 core + earth	8.9mm	M20
1135012	12	0.5mm	11 core + earth	11.3mm	M20
1135025	25	0.5mm	24 core + earth	15.2mm	M25/M32
0.75mm Conductor					
1135802	2	0.75mm	2 core - (No Earth)	7.4mm	M16
1135103	3	0.75mm	2 core + earth	7.9mm	M16
1135104	4	0.75mm	3 core + earth	8.4mm	M20
1135107	7	0.75mm	6 core + earth	9.7mm	M20
1135112	12	0.75mm	11 core + earth	12.3mm	M25
1135118	18	0.75mm	17 core + earth	14.5mm	M25
1mm Conductor					
1135203	3	1mm	2 core + earth	8.2mm	M16
1135204	4	1mm	3 core + earth	8.7mm	M20
1135207	7	1mm	6 core + earth	10.2mm	M20
1135212	12	1mm	11 core + earth	13.3mm	M25
1135218	18	1mm	17 core + earth	15.5mm	M25/M32
1135225	25	1mm	24 core + earth	17.5mm	M32
1.5mm Conductor					
1135902	2	1.5mm	2 core (No Earth)	8.5mm	M16
1135303	3	1.5mm	2 core + earth	8.9mm	M20
1135304	4	1.5mm	3 core + earth	9.6mm	M20
1135305	5	1.5mm	4 core + earth	10.3mm	M20
1135307	7	1.5mm	6 core + earth	11.3mm	M20
1135312	12	1.5mm	11 core + earth	14.8mm	M25
1135318	18	1.5mm	17 core + earth	17.2mm	M32
1135325	25	1.5mm	24 core + earth	20.1mm	M32
2.5mm Conductor					
1135403	3	2.5mm	2 core + earth	10.3mm	M20
1135404	4	2.5mm	3 core + earth	11.3mm	M20
1135405	5	2.5mm	4 core + earth	12.6mm	M25



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

Part 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)

ÖLFLEX ULTRA SCREEN VSD Black

DOUBLE EMC SCREENED CABLE WITH 100% SCREEN COVERAGE

#24



SEARCH ON EXPRESS.ECSNZ.COM



DESCRIPTION

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.

CONSTRUCTION

Conductors

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

Screening

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

Core Insulation

PVC

Outer Sheath

UV Resistant PVC

Core Colour

Red, White, Blue, Green/Yellow

Sheath Colour

Black

FEATURES, RATINGS & APPROVALS

Rated Voltage

0.6/1 kV

Temperature Range

Regular: -40 to +70
Enhanced: -20 to +90

Test Voltage

4 kV

Flame Retardant

In acc. to IEC 60332-1-2

Min. Bending Radius

4 x cable diameter (fixed installation)

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



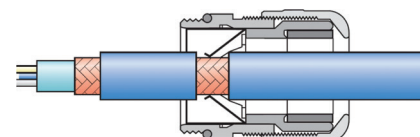
Single Earth



Split Earth



FOR THE PERFECT SCREENED GLAND
TRY OUR SKINTOP EMC RANGE.



SCREENED POWER

LAPP KABEL AS BLACK CIRCULAR V-90/5V-90

Construction

Class 2 stranded conductors, V90
PVC inner insulation material and UV
Resistant 5V-90 PVC outer sheath.
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

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












3 core (2 core + earth)



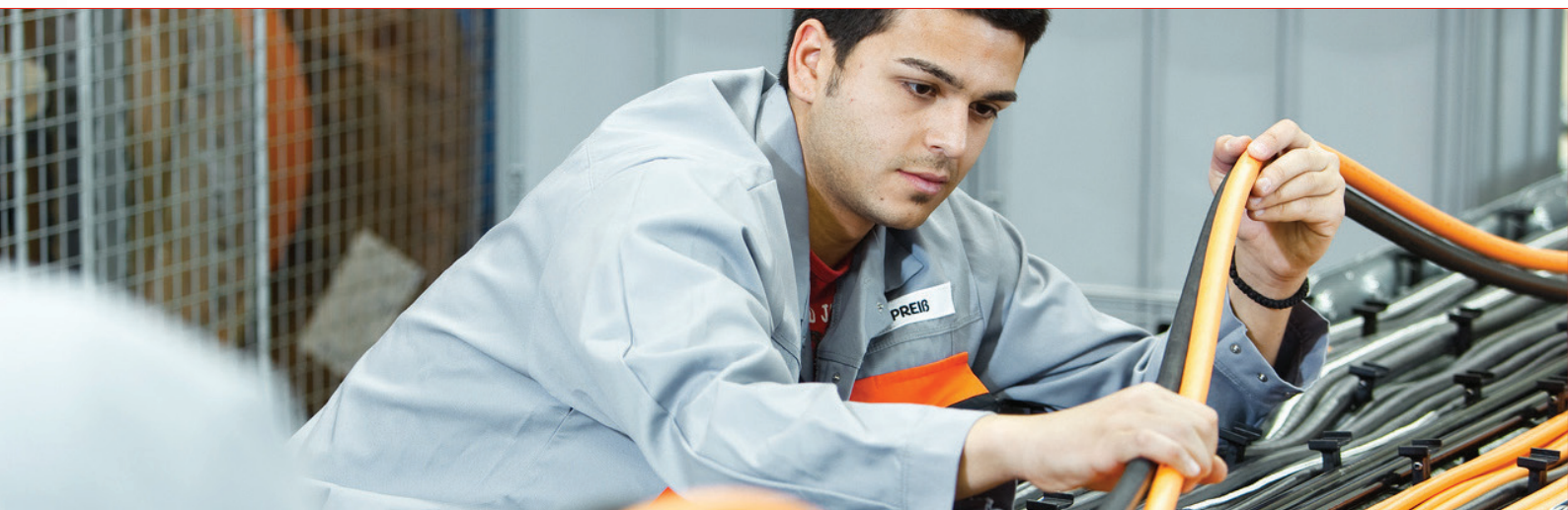
4 core (3 core + earth)



5 core (4 core + earth)

Conductor cross-sectional area	Unenclosed				Enclosed			Underground Ducts		Three Phase Voltage Drop
	Spaced		Touching		Conduit in air					
										
mm²	A	A	A	A	A	A	A	A	A	mV/A/m
1.5	22	18	21	17	16	15	25	22	30	
2.5	31	26	30	25	23	21	35	30	16.4	
4	42	35	39	33	30	27	46	39	10.2	
6	52	46	50	42	39	35	58	49	6.8	
10	73	62	68	58	54	48	78	65	4.05	
16	97	82	91	78	72	64	100	84	2.55	
25	131	111	120	104	100	90	131	109	1.61	
35	160	137	148	125	120	105	160	131	1.17	
50	194	165	182	154	143	125	188	160	0.87	
70	245	211	228	194	177	160	234	200	0.61	

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





Construction

Super flexible Class 6 fine wire stranding, PVC inner insulation material and grey PVC outer sheath.

Minimum Bending Radius

- 7.5 x cable OD
- 4 x cable OD

Temperature Rating

- 0 to 70
- -40 to 70

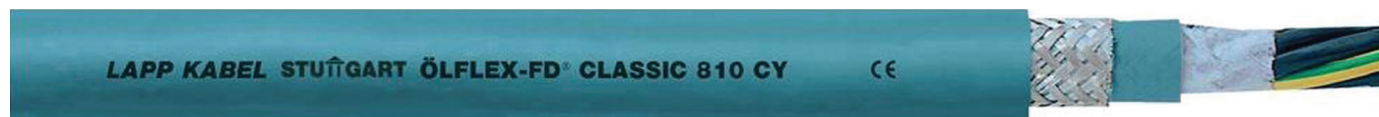
Standards

- 300/500V

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

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

ÖLFLEX 810CY Series
ULTRA-FLEXIBLE DRAGCHAIN CABLE - SCREENED



Construction

Super flexible Class 6 fine wire stranding, PVC inner insulation material and 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 80

Nominal Voltage

- 300/500V

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



Valve Cable

VALVE CABLE USED IN DAIRY FACTORY INSTALLATIONS

#29



SEARCH ON EXPRESS.ECSNZ.COM

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

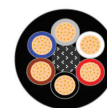
Temperature Rating

- -20 to 70

Features

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

Part No.	NOTES!	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	BLACK - New	6	0.5	500V	Brown, Blue, Grey, White, Red, Black	6.9mm
3805697	GREY - Previous	6	0.5	500V	Black, Red, White, Green, Yellow, Blue	6.9mm



0.25mm Conductors

ÖLFLEX Servo Cable

FOR USE WITH SERVOMOTOR DRIVE SYSTEMS

#221



SEARCH ON EXPRESS.ECSNZ.COM

LAPP KABEL STUTTGART ÖLFLEX® SERVO FD 796 CP CE

Construction

Super flexible Class 6 fine wire stranding, orange 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 796CP: -40 to 80
- Flexing 6FX8: -20 to 60

Nominal Voltage

- 600/1000V

Part No.	Series	Description	Power Conductors	Control Cores	OD
No Control Cores					
27950	796CP	3 Core + Earth	1.5mm		9.2mm
27951	796CP	3 Core + Earth	2.5mm		10.6mm
Control Cores					
27960	796CP	3 Core + Earth + 2 Control Cores	2.5mm	2 x 1.5mm	13.8mm
27791	6FX 8Plus	3 Core + Earth + 2 Control Cores	2.5mm	2 x 1.5mm	13.4mm



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)

Part 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



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)

Part 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 (SINGLE PAIR) FOR BMS HVAC



#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)

Part No.	Type	Pairs	Conductor	Conductor Colours	Cable OD	Drum Size
Black & White						
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
33000	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 (TRIPLE) FOR RTD'S



#225

SEARCH ON EXPRESS.ECSNZ.COM



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

- UV Resistant suitable for outdoor use.

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

UNITRONIC ST - Serial RS485

FOR SERIAL RS485 COMMUNICATIONS



#226

SEARCH ON EXPRESS.ECSNZ.COM



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

Part No.	Type	Pairs	Conductor	Conductor Colours	Cable OD	Drum Size
24 awg / ~0.25mm ²						
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



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

Construction

7 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 Voltage

- 30V

Part No.	Type	Pairs	Conductor	Cable OD	Drum Size
			24 awg / ~0.25mm ²		
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

Pairs	Core 1	Core 2
Pair 1	Wh/Bu Stripe	Bu/Wh Stripe
Pair 2	Wh/Og Stripe	Og/Wh Stripe
Pair 4	Wh/Bn Stripe	Bn/Wh Stripe
Pair 5	Wh/Gy Stripe	Gy/Wh Stripe
Pair 7	Rd/Og Stripe	Og/Rd Stripe
Pair 8	Rd/Gn Stripe	Gn/Rd Stripe
Pair 9	Rd/Bn Stripe	Bn/Rd Stripe
Pair 10	Rd/Gy Stripe	Gy/Rd Stripe
Pair 11	Bk/Bu Stripe	Bu/Bk Stripe
Pair 12	Bk/Og Stripe	Og/Bk Stripe
Extra Core	Grey	

UNITRONIC Instrumentation Cable
OVERALL SCREENED INSTRUMENTATION CABLE 300/500V



LAPP KABEL INSTRUM®

Construction

7 wire 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: 10 x cable OD

Temperature Rating

- Fixed: -20 to 105

Nominal Voltage

- 300/500V

Part No.	Type	Pairs	Conductor	Conductor Colours	OD
0.5mm Conductors					
1270800	B5001 CS	1 Pair	0.5mm	Black & White	6.8
1270802	B5002 CS	2 Pair	0.5mm	Black & White	7.7
1270804	B5004 CS	4 Pair	0.5mm	Black & White	12
1270806	B5006 CS	6 Pair	0.5mm	Black & White	13.7
1270808	B5008 CS	8 Pair	0.5mm	Black & White	15.2
1270812	B5012CS	12 Pair	0.5mm	Black & White	17.9
1.5mm Conductors					
1270950	B5102 ES	1 Pair	1.5mm	Black & White	8.2
1271300	B5103 ES	1 Triple	1.5mm	Black, White & Red	9
1270952	B5502 CS	2 Pair	1.5mm	Black & White	12.6
1270954	B5504 CS	4 Pair	1.5mm	Black & White	15.2
1270956	B5506 CS	6 Pair	1.5mm	Black & White	17.4
1270962	B5512 CS	12 Pair	1.5mm	Black & White	23.1





UNITRONIC Profibus

FOR SIEMENS PLC COMMUNICATION NETWORKS

#236


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LAPP KABEL STUTTGART UNITRONIC® BUS L2/FIP ROBUST				
Part No.	Type	No. of cores and Ø of conductor	OD	Sheath Type
Static				
2170220	Solid Conductor	1 x 2 x 0.64 mm Ø (~0.34mm²)	8	PVC - Purple
Dragchain - Ultra Flexible				
2170222	Stranded Conductors	1 x 2 x 0.64 mm Ø (~0.34mm²)	8	PUR - Purple

EPIC Profibus Connectors

FOR SIEMENS PLC COMMUNICATION NETWORKS

#273


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Part 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				
Part 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

Details

DIN rail mounted remote IO solution. A full range of network interfaces are available which allows this solution to be used in almost every industrial network. The slice based IO systems

Features

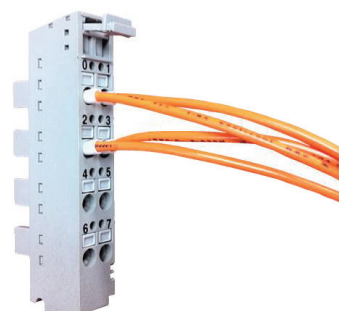
- Positive and Negative switching options
- Removable wiring blocks
- Low cost solution for Ethernet IP
- Slice based IO system

Part No.	Description
Network Adapters	
NA-9112	DeviceNet network adapter
NA-9122	PROFIBUS DP/V1 network adapter
NA-9131	CC-Link network adapter
NA-9161	CANopen network adapter
NA-9171	MODBUS RS-232C network adapter
NA-9173	MODBUS RS-485 network adapter
NA-9186	EtherCAT Network Adapter
NA-9187	ProfiNet RT Network Adapter
NA-9188	EtherNet/IP Network Adapter
NA-9189	MODBUS/TCP network adapter
Power Modules	
ST-7111	Power Distributor
ST-7241	Field Power Isolator (for segmenting voltages)
Digital Inputs	
ST-1114	DI 4 points, Sink, 5VDC
ST-1214	DI 4 points, Sink, 12V/ 24VDC
ST-1314	DI 4 points, Sink, 48V DC
ST-1218	DI 8 points, Sink, 12V/ 24VDC
ST-121F	DI 16 points, Sink, 12V/ 24VDC
ST-1804	DI 4 points, 110V AC (AC 85V - 132V)
ST-1904	DI 4 points, 220V AC (AC 170V - 264V)
Digital Outputs	
ST-2124	DO 4 points, TTL, 5VDC/20mA
ST-2324	DO 4 points, Source, 24VDC/ 0.5A
ST-2424	DO 4 points, Source, Diagnostics, 24VDC/ 0.5A
ST-2524	DO 4 points, Source, Diagnostics, 24VDC/ 2A
ST-2624	DO 4 points, Source, 24VDC/ 2A
ST-2328	DO 8 points, Source, 24VDC/ 0.5A
ST-222F	DO 16 points, Source, 24VDC/ 0.3A
ST-2742	Relay Output 2 points, 230V AC/ 2A
ST-2744	Relay Output 4 Points, 230V AC/ 2A
ST-2748	Relay Output 8 Points, 230V AC/ 2A
ST-2792	Relay Output 2 points, 230V AC/ 2A, Manual
ST-2852	Triac Output 2 points, 12V - 125VAC/ 0.5A
Analogue Inputs	
ST-3114	AI 4 Channels, 0-20mA, 12-bit
ST-3118	AI 8 Channels, 0-20MA, 12bit
ST-3134	AI 4 Channels, 0-20mA, 14-bit
ST-3214	AI 4 Channels, 4-20mA, 12-bit
ST-3218	AI 8 Channels, 4-20mA, 12bit
ST-3234	AI 4 Channels, 4-20mA, 14-bit
ST-3274	AI 4 Ch, 4-20mA, 12-bit, Sensor Connect
ST-3424	AI 4 Channels, 0-10Vdc, 12-bit
ST-3428	AI 8 Channels, 0-10V, 12bit
ST-3444	AI 4 Channels, 0-10Vdc, 14-bit
ST-3524	AI 4 Channels, -10 to +10Vdc, 12-bit
ST-3544	AI 4 Channels, -10 to +10Vdc, 14-bit
ST-3624	AI 4 Channels, 0-5Vdc, 12-bit
ST-3644	AI 4 Channels, 0-5Vdc, 14-bit
ST-3702	AI 2 Channels, RTD PT100
ST-3704	AI 4 Channels, RTD PT100
ST-3708	AI 8 Channels, RTD PT100
ST-3714	AI 4 Channels, RTD, Temp. Control, SSR Out
ST-3734	AI 4 Ch, RTD, Temp. Control, Current Out
ST-3802	AI 2 Channels, Thermocouple
ST-3804	AI 4 Channels, Thermocouple
ST-3808	AI 8 Channels, Thermocouple
ST-3814	AI 4 Channels, TC, Temp. Controller, SSR out
ST-3834	AI 4 Ch. TC, Temp. Controller, Current out

Part No.	Description
Analogue Outputs	
ST-4112	AO 2 Channels, 0-20mA, 12-bit
ST-4114	AO 4 Channels, 0-20mA, 12bit
ST-4212	AO 2 Channels, 4-20mA, 12-bit
ST-4214	AO 4 Channels, 4-20mA, 12bit
ST-4274	AO 4 Ch, 4-20mA, 12bit, Sensor Connect
ST-4422	AO 2 Channels, 0-10Vdc, 12-bit
ST-4424	AO 4 Channels, 0-10Vdc, 12bit
ST-4474	AO 4 Ch, 0-10Vdc, 12bit, Sensor Connect
ST-4491	AO 1 Channel, 0-10V, 12bit, Manual type
ST-4522	AO 2 Channels, -10 to +10Vdc, 12-bit
ST-4622	AO 2 Channels, 0-5Vdc, 12-bit
ST-4911	AO 1 Channel, 0-1 A, 12bit
Special Modules	
ST-5101	High Speed Counter, 1 Channel, 5VDC
ST-5111	High Speed Counter, 1 Channel, 24VDC
ST-5112	High Speed Counter, 2 Channel, 24VDC
ST-5114	High Speed Counter, 4 Channel, 24VDC
ST-5211	Serial Interface RS-232, 1 Channel
ST-5212	Serial Interface RS-232, 2 Channels
ST-5221	Serial Interface RS-422, 1 Channel
ST-5231	Serial Interface RS-485, 1 Channel
ST-5232	Serial Interface RS-485, 2 Channels
ST-5351	SSI Interface 1 CH
ST-5422	PWM Out, 2A/24V, Source, 2 Channels
ST-5442	PWM Out, 0.5A/24V, Source, 2 Channels
ST-5444	PWM Out, 0.5A/24V, Source, 4 Channels
ST-5641	1 CH, Pulse Out, 0.5A/24V, Steppers
ST-5642	2 CH, Pulse Out, 0.5A/24V, Steppers
ST-5651	1 CH, Pulse Out, 0.5A/5V, Steppers (RS422)



Slice Based IO System



Removable Terminals

Wieland SAMOS Pro PROGRAMMABLE SAFETY CONTROLLER

#249

SEARCH ON EXPRESS.ECSNZ.COM



Details

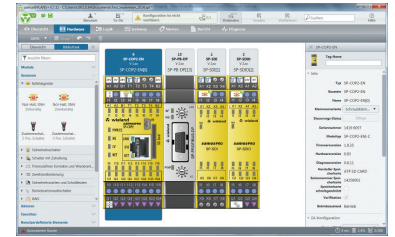
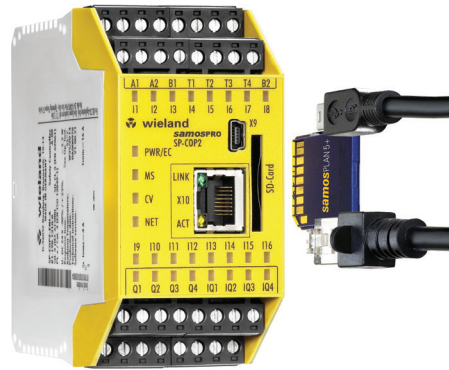
Cost effective and extremely flexible programmable safety controller.

Application

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

Features

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



Safety Controllers



Input Modules



Fieldbus Modules

Part 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

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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.

Protection

- PL e / Category 4 (EN ISO 13849-1)
- SILCL 3 (EN 62061)

Application

- EStops
- Magnet Safety Gates
- Light Barriers

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



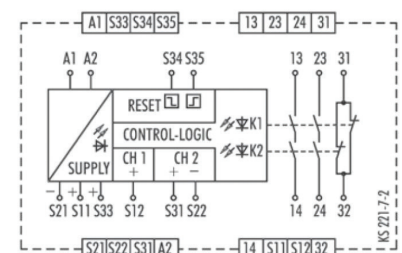
Protective Gate Monitoring



Monitoring Light Barriers



Part 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

Part 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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Part No.	Type	Contacts	Dimensions
Block Magnet			
R1.100.0119.0	SMA 0119	N/O + N/C	w36 x h26 x d13
R1.100.0129.0	SMA 0129	2 x N/O	
R1.100.4100.0	Spacer / Washer		
Rectangle Magnet			
R1.100.0219.0	SMA 0219	N/O + N/C	w88 x h25 x d14
R1.100.0229.0	SMA 0229	2 x N/O	
R1.100.4200.0	Spacer / Washer		
Round Magnet			
R1.100.0319.0	SMA 0319	N/O + N/C	M30 x 32mm
R1.100.0329.0	SMA 0329	2 x N/O	
Interface Block			
R1.100.4001.0	SMI 1001	Up to 4 NC/NC Magnets	
Connection block for sensors for 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		



Block Magnet



Rectangle Magnet



Round Magnet



Interface Block



Sensor Connectors

Wieland Mechanical Safety Switches

SAFETY SWITCH WITH GUARDLOCKING AND SEPARATE ACTUATOR

#45



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SIN 1330 AC/DC 24V



SIN 9001



SIN 9002

Part 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

ETHERLINE Industrial Ethernet

ETHERNET CABLES FOR INDUSTRIAL INSTALLATIONS

#46



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LAPP KABEL STUTTGART UNITRONIC® EtherLine Flex

Part No.	Type	Special notes	Strands/conductor	No. of cores and size	OD
4 x 2 x 26AWG					
2170299	Flexible CAT5e Halogen Free	Double Screened	7	4 x 2 x 26AWG	6.1
2170300	Flexible CAT5e PUR	Extremely tough sheath	7	4 x 2 x 26AWG	6.1
2170489	Ultra flexible CAT5e PUR	Extremely tough sheath	19	4 x 2 x 26AWG	6.3
2170488	Ultra flexible CAT6 PUR	Extremely tough sheath	19	4 x 2 x 26AWG	7.8

ETHERLINE Ethernet Patch Cables #47

ETHERNET PATCH CABLES FOR INDUSTRIAL INSTALLATIONS

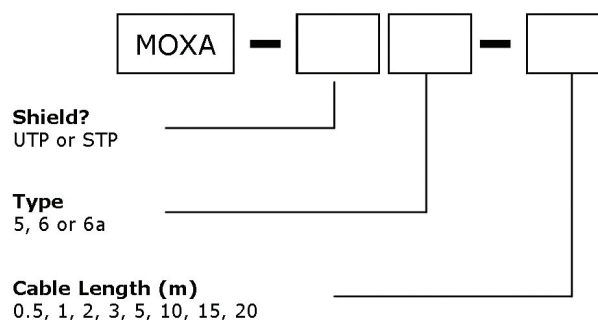
#46



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Type	Shield	Cable Length
UTP or STP		
5	UTP or STP	0.5, 1, 2, 3, 5, 10, 15, 20
6	UTP or STP	0.5, 1, 2, 3, 5, 10, 15, 20
6a	UTP or STP	0.5, 1, 2, 3, 5, 10, 15, 20



UNITRONIC CAT 5e

CAT5E ETHERNET CABLES

#46
SEARCH ON EXPRESS.ECSNZ.COM



LAPP KABEL UNITRONIC LAN CAT5e - UTP



Max Bending Radius

- 4 x Cable OD

Specifications

- TIA/EIA 568-Bc
- EN 50173-1
- IEC 60332-1-2

Applications

- Ethernet LAN's
- Green Star Buildings

Packing

- UTP - 305m Boxes
- FTP - Cut to length for

Part No.	Type	Strands/conductor	No. of cores and size	OD
Unshielded				
2170125K	CAT5e UTP	1	4 x 2 x 24AWG	5
3803999K	CAT5e UTP Halogen Free	1	4 x 2 x 24AWG	5.1
Shielded				
2170126	CAT5e FTP	1	4x2x24AWG	6.4
2170127	CAT5e FTP	7	4x2x26AWG	5.6

UNITRONIC CAT 6

CAT6 FAST ETHERNET CABLES

#46
SEARCH ON EXPRESS.ECSNZ.COM



LAPP KABEL UNITRONIC LAN CAT6 - UTP



Max Bending Radius

- 4 x Cable OD

Specifications

- TIA/EIA 568-B.2-1
- ISO/IEC 11801-2
- EN 50173-1
- IEC 60332-1-2

Applications

- Ethernet LAN's
- Green Star Buildings

Packing

- 305m Boxes

Part No.	Type	Strands/conductor	No. of cores and size	OD
Unshielded				
3801501K	CAT6 UTP	1	4 x 2 x 23AWG	6.2
Shielded				
2170194	CAT6 FTP Halogen Free	1	4 x 2 x 24AWG	7.5

UNITRONIC CAT 6A

ETHERNET CABLES FOR FUTURE PROOFING

#46
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LAPP KABEL UNITRONIC LAN CAT6a - 10G PiMF



Special Shielding

Each twisted pair is in its own individual foil screen (PiMF). There is also a tinned copper overall braid screen to minimise external noise immunity.

Applications

- 10G Ethernet LAN's
- Main Backbone cables
- Future-proof Installations
- Green Star Buildings

Packing

- 500m / 1000m Drums
- Cut to length

Part No.	Type	Strands/conductor	No. of cores and size	OD
Foil + Braid				
2170143	CAT6a	1	4 x 2 x 23AWG	8.4
2170144	CAT6a Flexible	7	4 x 2 x 26AWG	6



ETHERNET

ETHERLINE RJ45 Connectors FOR ETHERNET NETWORKS IN FACTORY INSTALLATIONS

#48



SEARCH ON EXPRESS.ECSNZ.COM

ECS-P129 - UNSHIELDED

Features

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



ECS-P129S - SHIELDED

Features

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



SNAG COVERS

Features

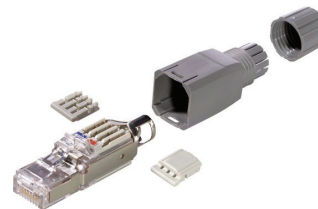
For use with ECS-P129 and ECS-P129s connectors
Cable OD: 5-6mm
Available in Green, Blue, White, Black and Red



21700540 - FIELD MOUNTABLE

Features

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



21700600 - FIELD MOUNTABLE

Features

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



21700605 - PROFINET COLOUR CODING

Features

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



21700615 - FOR FD CABLES

Features

Quick Termination / 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



ECS-P129S-JOINER

Features

For Joining Ethernet Patch Cables
Suitable for speeds up to CAT6A



21700639 - FOR FD CABLES

Features

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



21700636 - FOR STANDARD CABLES

Features

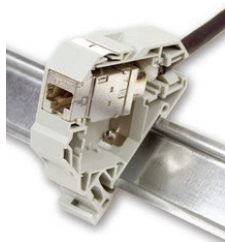
Quick Termination / No Tools Required
4 Pair: Standard T568A
90 Degree cable exit
4 Way Mountable
Solid Wire: 24 to 22AWG
7 Stranded: 27 to 22AWG
Cable OD: 5-10mm



60795 - DIN RAIL ETHERNET SOCKET

Features

Ideal for Ethernet Patch cables in Switchboards
Bring your main cable in, then run a short patch cable
Suitable for speeds up to CAT6
Solid Wire: 26 to 22AWG
7 Stranded: 27 to 22AWG



21700613 - DIN RAIL ETHERNET SOCKET

Features

Fully Enclosed
Cover flap when socket not in use
Ideal for Ethernet Patch cables in Switchboards
Bring your 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



22260820 - MALE D CODED

Features

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



22261016 - FEMALE D CODED

Features

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



21700623 - ETHERNET CABLE JOINER

Features

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



SCH-RRJ_RJ45_WC - RJ45 JACK AND COVER

Features

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



DIN Space Patch Panels

COMPACT VERSATILE FIBRE OPTIC PATCH PANELS

Features

- Compact size perfect for limited space enclosures
- UL Listed
- Versatile surface or DIN-Rail mount capability
- Slide-hinged faceplate aids field termination
- Rugged metal construction



Part No.	Notes
Copper	
DIN-SNAP-12CU	Cu Shielded CAT 6 Patch Panels - with 12 shielded CAT 6 jacks
Fibre	
DIN-SNAP-12SC-MM	SNAP-12SC-MM - with 6 multimode SC/SC duplex adapters
DIN-SNAP-12SC-SM	SNAP-12SC-SM - with 6 singlemode SC/SC duplex adapters
DIN-SNAP-12ST-SC-MM	Compact Fibre Optic Patch Panel - 6 x ST External Duplex Connectors
DIN-SNAP-24LC-MM	with 24 multimode LC connections
DIN-SNAP-24LC-SM	with 24 singlemode LC connections
Fibre With Extra Large Box	
DIN-SNAPXL-24SC-MM	SNAP-24SC-MM - with 12 multimode SC/SC duplex adapters
DIN-SNAPXL-24ST-SC-M	SNAP-24ST-SC-MM - with 12 multimode ST external duplex adapters



HITRONIC Fibre Optic - Distribution #49

LOOSE-TUBE, GEL FILLED SINGLE & MULTIMODE FIBRE

#49

SEARCH ON EXPRESS.ECSNZ.COM





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.

Part 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

HITRONIC Terminations

CONNECTORS, BREAKOUT BOXES AND OTHER ACCESSORIES

#50

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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.



Part No.	Description
Termination Kit	
ECS-FO-KIT	No Polish Connector Termination Kit with cleaver
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



HITRONIC Fibre Patch Cables

FIBRE PATCH LEADS

#51

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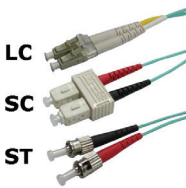
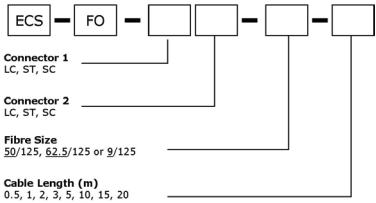


Application
Generally used for short flexible installations between breakout boxes and the end devices.

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	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



HITRONIC 19" Fibre Racks

FIBRE DISTRIBUTION IN SERVER / CONTROL ROOMS

#53



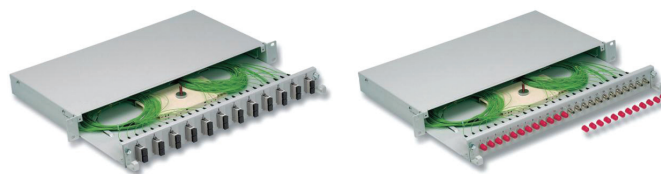
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Application

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



Part No.	Number of Connection Points	Suitable Couple Style	Dimensions (WxHxD)	Size
1 RU				
CE9139	24 Simplex holes for ST couplers	Circular	483 x 44.5 x 244mm	1 RU
CE9135	12 Duplex holes for SC/LC/ST couplers	Rectangle	483 x 44.5 x 170mm	1 RU

HITRONIC Splice Box Compact Fibre Distribution Box

FIBRE DISTRIBUTION AROUND THE FACTORY

#53

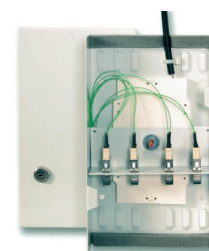


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Details

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

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



HITRONIC 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

Part No.	Description	Material	Dimensions
Mini Wall Mounted Rack			
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	



HITRONIC Plastic Fibre Distribution Box

FIBRE DISTRIBUTION AROUND THE FACTORY

#53

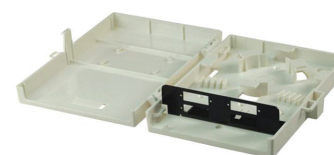


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Details

- Distribution for up to 8 single fibres
- Includes distribution plates for both 4 x SC Duplex
- Splicing cartridge included

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



HITRONIC Fibre Accessories

ACCESSORIES FOR DISTRIBUTION UNITS

#53



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Part No.	Description
Splice Cartridges	
CE9914	Fibre cable holder. For spooling tails.
CE9914D	Cover for fibre cable holder.
CE9916	Splice Holder (up to 2 per cartridge)

Part No.	Description
Fibre Couplers	
FO-SCSC-Joiner	Duplex SC Coupler for 50/125 and 62,5/125
FO-SCSC-Joiner-9	Duplex SC Coupler for 9/125
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

MOXA Industrial Ethernet Switches

SWITCHES FOR FACTORY AUTOMATION (UNMANAGED)

#55



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Notes

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



Part 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-208A-xx-x		Metal	6	2 x Fibre	m, mm, s, ss	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



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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



Part 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



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Entry Level Converters



Medium-level Converters

Part 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

Part 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

Part 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

MOXA Industrial GSM

REMOTE MAINTENANCE AND COMMISSIONING FOR MACHINERY

Details

Remote access gateway with both Ethernet and serial connections. Perfect for trouble shooting during commissioning on remote sites. Unit can either Text or Email you with the IP address. Simply enter the IP address into your PLC programming software and you can remotely connect. Full setup support available on request.

Application

- Remote commissioning
- Remote maintenance
- Remote data logging

Features

- Suitable with Telecom XT, Vodafone and 2 Degrees Sim Cards
- Excellent security features
- Can send predefined (alarm) text messages using onboard digital inputs
- Both Ethernet and Serial RS232, 422/485 onboard
- uses latest 3G technology for best data speeds (Switches to 2G if not available in local area)
- Industrial unit (12Vdc to 48Vdc)



Part No.	Description
OnCell-G3150-HSPA	MOXA OnCell Remote Dial In Unit



Miniature Circuit Breakers & Residual Current Devices

BKN / BKN-b / BKN-c / BKH / BKP / BFN /
RKN / RKN-b / RKS / RKS-b / RKP / 32KGR / 32GRh / BS

RCCB

RESIDUAL CURRENT CIRCUIT BREAKERS

#60



SEARCH ON EXPRESS.ECSNZ.COM

Features

- Type A - NZ Standard
- Rated for 6000 operations

Rated Residual Current

- 30mA

Current off time

- < 0.1s



2 Pole



4 Pole

Part No.	Type	Current Rating
2 Pole		
06220450R0	RKN-A	40A
06220453R0	RKN-A	63A
4 Pole		
06220462R0	RKN-A	40A
06220465R0	RKN-A	63A

RCBO

RESIDUAL-CURRENT CIRCUIT BREAKER WITH OVERLOAD PROTECTION

#60



SEARCH ON EXPRESS.ECSNZ.COM

Features

- 18mm Wide
- 2 Pole Switching

Rating

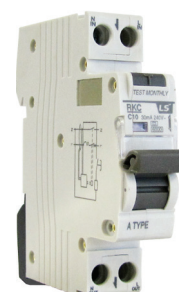
- 6kA

Rated Residual Current

- 10mA and 30mA

Current off time

- <= 0.1 sec



Part No.	Type	Current Rating
30mA		
06221062R0	RKC-A	6A
06221063R0	RKC-A	10A
06221064R0	RKC-A	16A
06221065R0	RKC-A	20A
06221066R0	RKC-A	25A
10mA		
06221057R0	RKC-A	10A
06221058R0	RKC-A	16A
06221059R0	RKC-A	20A

Main Switches

MAIN ISOLATION SWITCHES

#62



SEARCH ON EXPRESS.ECSNZ.COM

Features

- Up to 63A: 20,000 Operations
- 80A+ : 10,000 Operations

Dimensions

- 1 Pole : 17.8mm
- 2 Pole : 35.6mm
- 3 Pole : 53.4mm
- 4 Pole : 71.2mm

Part No.	Type	Current Rating
1 Pole		
06110083R0	BKD	63A
06110085R0	BKD	100A
2 Pole		
06120247R0	BKD	63A
06120249R0	BKD	100A
3 Pole		
06130063R0	BKD	63A
06130064R0	BKD	80A
06130065R0	BKD	100A
4 Pole		
06140187R0	BKD	125A



MCB'S

LS Miniature Circuit Breakers 6kA BKN - 6KA SERIES

#63



SEARCH ON EXPRESS.ECSNZ.COM

Current Rating (A)	C Curve	D Curve
1 Pole		
1	06110070R0	06110099R0
2	06110071R0	06110100R0
3	06110072R0	06110101R0
4	06110073R0	06110102R0
6	06110074R0	06110103R0
10	06110075R0	06110104R0
16	06110076R0	06110105R0
20	06110077R0	06110106R0
25	06110078R0	06110107R0
32	06110079R0	06110108R0
40	06110080R0	06110109R0
50	06110081R0	06110110R0
63	06110082R0	06110111R0
2 Pole		
1	06120213R0	
2	06120214R0	
3	06120215R0	
4	06120216R0	06120292R0
6	06120217R0	06120293R0
10	06120218R0	06120294R0
16	06120219R0	06120295R0
20	06120220R0	06120296R0
25	06120221R0	06120297R0
32	06120222R0	06120298R0
40	06120223R0	06120299R0
50	06120224R0	06120300R0
63	06120225R0	06120301R0
3 Pole		
6	06130054R0	06130083R0
10	06130055R0	06130084R0
16	06130056R0	06130085R0
20	06130057R0	06130086R0
25	06130058R0	06130087R0
32	06130059R0	06130088R0
40	06130060R0	06130089R0
50	06130061R0	06130090R0
63	06130062R0	06130091R0
Jumper Bars		
70211413001	BUSBAR BB101 for 1P - 63A Rated - Length 1m	
70211413003	BUSBAR BB201 for 2P - 63A Rated - Length 1m	
70211413005	BUSBAR BB301 for 3P - 63A Rated - Length 1m	
70211413009	End Cap for BB 1P	
70211413010	End Cap for BB 2P	
70211413044	End Cap for BB 3P	
Auxiliary Feedback		
06150002R0	Auxiliary Feedback	6A rated



1 Pole



BB101



2 Pole



BB201



3 Pole



BB301



Auxiliary Feedback

LS Miniature Circuit Breakers 10kA BKH - 10KA SERIES

#1386



SEARCH ON EXPRESS.ECSNZ.COM

Dimensions

- 1 Pole : 27mm
- 3 Pole : 81mm

Current Rating (A)	C Curve
1 POLE	
80	06110330R0
100	06110331R0
125	06110332R0
3 Pole	
80	06110346R0
100	06110347R0
125	06110348R0



BKH 1 Pole



BKH 3 Pole

LS Miniature Circuit Breakers 10kA

BKN-B - 10KA SERIES

#66



SEARCH ON EXPRESS.ECSNZ.COM

Current Rating (A)	C Curve	D Curve
1 Pole		
2	06110174R0	
4	06110176R0	
6	06110177R0	06110255R0
10	06110178R0	06110256R0
16	06110179R0	06110257R0
20	06110180R0	06110258R0
25	06110181R0	06110259R0
32	06110182R0	06110260R0
40	06110183R0	06110261R0
50	06110184R0	06110262R0
63	06110185R0	06110263R0
2 Pole		
2	06110200R0	06110278R0
4	06110202R0	06110280R0
6	06110203R0	06110281R0
10	06110204R0	06110282R0
16	06110205R0	06110283R0
20	06110206R0	06110284R0
25	06110207R0	06110285R0
32	06110208R0	06110286R0
40	06110209R0	06110287R0
50	06110210R0	06110288R0
63	06110211R0	06110289R0
3 Pole		
6	06110216R0	06110294R0
10	06110217R0	06110295R0
16	06110218R0	06110296R0
20	06110219R0	06110297R0
25	06110220R0	06110298R0
32	06110221R0	06110299R0
40	06110222R0	06110300R0
50	06110223R0	06110301R0
63	06110224R0	06110302R0
Jumper Bars		
70211413002	BUSBAR BB102 for 1P - 63A Rated - Length 1m	
70211413004	BUSBAR BB202 for 2P - 63A Rated - Length 1m	
70211413006	BUSBAR BB302 for 3P - 63A Rated - Length 1m	
70211413009	End Cap for BB 1P	
70211413010	End Cap for BB 2P	
70211413044	End Cap for BB 3P	
Auxiliary Feedback		
06150012R0	Auxiliary Feedback	6A rated



BB102



1 Pole



BB202



2 Pole



BB302



3 Pole



Auxiliary Feedback

Chassis

PAN ASSEMBLY FOR LS MCB'S

#73



SEARCH ON EXPRESS.ECSNZ.COM

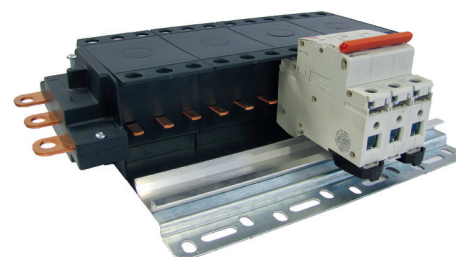
Features

Chassis used in switchboards and distribution boxes for quick connection of the LS MCB's. Using chassis' reduces the need for jumper wires and allow for the easy addition of MCBs in future.

Application

- Suitable for LS BKN (6kA) & BKN-b (10kA)

Part No.	Description
TPA-24-POLE-ES	24 Pole MCB Chassis for LS MCB
TPA-36-POLE-ES	36 Pole MCB Chassis for LS MCB
TPA-48-POLE-ES	48 Pole MCB Chassis for LS MCB
TPA-60-POLE-ES	60 Pole MCB Chassis for LS MCB
TPA-72-POLE-ES	72 Pole MCB Chassis for LS MCB



MCB'S



LS MCCB

MOULDED CASE CIRCUIT BREAKERS SUITABLE FOR AC AND DC APPLICATIONS

#74



SEARCH ON EXPRESS.ECSNZ.COM



Frame Size 100A / 50kA@415V



Frame Size 160A / 50kA@415V

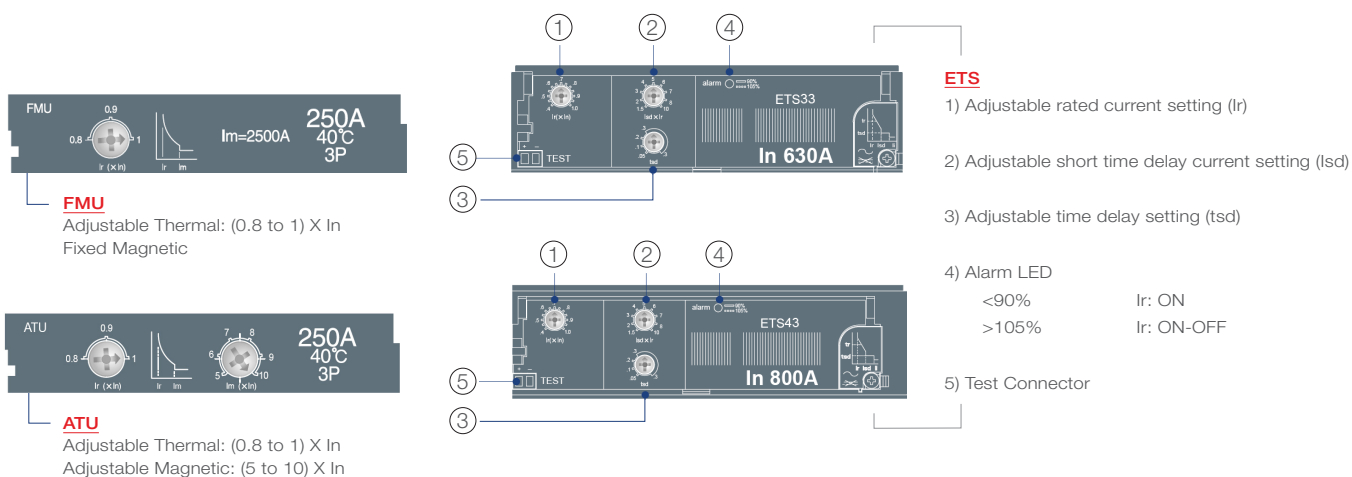


Frame Size 250A / 50kA@415V

Part 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



LS Auxiliaries

FOR MOULDED CASE CIRCUIT BREAKERS

#76  SEARCH ON EXPRESS.ECSNZ.COM

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

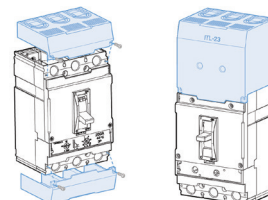


LS Terminal Covers

FOR MOULDED CASE CIRCUIT BREAKERS

#77  SEARCH ON EXPRESS.ECSNZ.COM

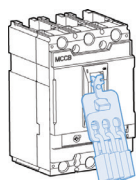
Short Cover	Longer Cover	Suitable Models
64621172011 (ITS 23)	64621172016 (ITL 23)	TS100, 160, 250
64621173011 (ITS 33)	64621173013 (ITL 33)	TS400, 630
64621174011 (ITS 43)	64621174013 (ITL 43)	TS800



LS Locking Devices

FOR MOULDED CASE CIRCUIT BREAKERS

#78  SEARCH ON EXPRESS.ECSNZ.COM



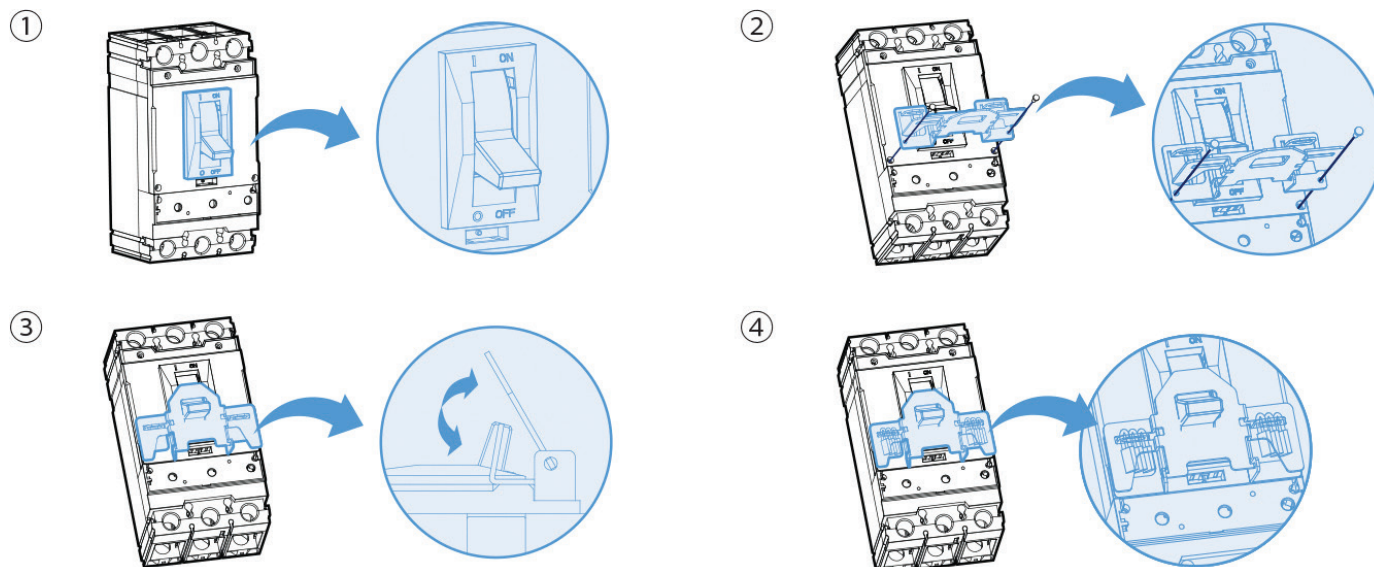
Padlock dimensions



Locking Devices (OFF position)

Locking Devices (On/OFF position)

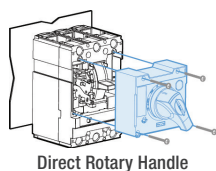
Part No.	Type	Suitable Models	Notes
Locking Devices (OFF position)			
56771172801	PL2	TS100, 160, 250	Locks in OFF position only
56771173801	PL3	TS400, 630	Locks in OFF position only
56771174801	PL4	TS800	Locks in OFF position only
Locking Devices (On/OFF position)			
56771172802	PHL2	TS100, 160, 250	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



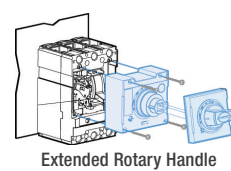
LS External Handles FOR MOULDED CASE CIRCUIT BREAKERS

#79

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Direct Rotary Handle



Extended Rotary Handle

Part 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

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Features

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



Part 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)

Part 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

Part 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)
73311634052	AC DA-18HA	32H MMS and 18AF 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



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	1327005300	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		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	

LS Contactor Overloads

OVERLOADS 18AF SIZE CONTACTORS

#89



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Part 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



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Features

- Many configuration options
- Easy to assemble
- All options available from stock

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



LS Capacitor Units

FOR POWER FACTOR CORRECTION APPLICATIONS

#91

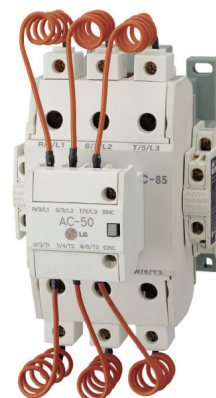


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Features

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

Part No.	Type	Suitable Contactors	Configuration	400-440V
83631611001	AC-9	MC-9a to MC-40a	MC-9b with AC-9	9.7kVar - 14A
83631613004	AC-50	MC-50a to MC-100a	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 Contactors - Reversing Interlocks

FOR USE IN ELECTRICAL INTERLOCKING

#91



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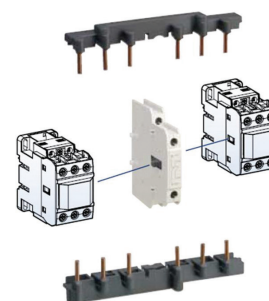
Interlock Terminal

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.

Part No.	Type	Description
		Overload For 18AF
76671635003	UW-18	Jumper Bar Kit for MC-6a, 9a, 12a & 18a
83411634001	UR-02	Interlock Terminal



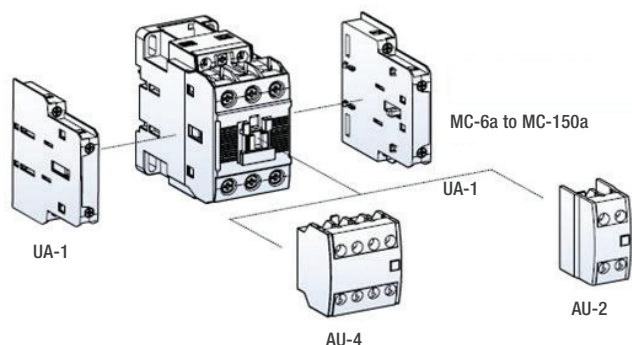
LS Auxiliaries

FOR USE IN ELECTRICAL INTERLOCKING CONTACTORS

#90



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Features

- Space Saving for tight installations
- Allows overload to be mounted next to contactor
- Din Rail Mountable

Part No.	Type	Mounting Type	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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Type	Auxiliary	kW	415V			Coil Voltages	
			AC-3	24Vdc		24Vac	240Vac
GMD-6M	1 N/O	2.2	6A	1270005200			
GMD-16M	1 N/O	7.5	16A	1270039200			
GMC-16M	1 N/O	7.5	16A			1269026800	1269039600

LS Mini Contactor GT12 Overloads

GT12 OVERLOADS FOR MINI CONTACTORS

#93



SEARCH ON EXPRESS.ECSNZ.COM



Part 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

SEARCH ON EXPRESS.ECSNZ.COM



Part No.	Type
83661821001	AZ-12MH

LS Auxiliarie CONTACT UNIT

FRONT MOUNTING AUXILIARIES FOR MINI CONTACTORS



#92

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Part No.	Type	Contacts
83361621009	AU-2M 1A1B EXP	1 x NO, 1 x NC
83361621005	AU-4M 2A2B EXP	2 x NO, 2 x NC

AR-12M Interlock

INTERLOCK KIT FOR GMC AND GMD MINI CONTACTORS



#94

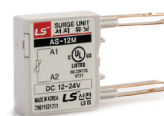
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Part No.	Type
83411621007	AR-12M

Surge Absorber Unit

SURGE UNIT TO REDUCE STARTUP LOAD ON COIL



#94

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Part No.	Type
83611621004	AS-12M

SCHLEGEL Push-Button Heads

STANDARD & ILLUMINATED SWITCHBOARD PUSH BUTTONS 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
Yellow	RMCT-GGB	RMCF-GGB	RMCT-GB
Green	RMCT-GGN	RMCF-GGN	RMCT-GN
Red	RMCT-GRT	RMCF-GRT	RMCT-RT
Black	RMCT-GSW	RMCF-GSW	
White	RMCT-GWS		RMCT-WS
Clear		RMCT-KL	RMCF-KL
Extras			
Clear	Waterproof Pushbutton including transparent silicone cap (IP67)		RMCTM
Grey	Blanking unit for sealing off unused holes		BVR22



STANDARD



ILLUMINATED



WATERPROOF



BLANK

SCHLEGEL LED Indicators

230V & 12V LED INDICATORS

#1587

SEARCH ON EXPRESS.ECSNZ.COM



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	RMCM-24-BL	RMCM-230-GN	
Yellow	RMCM-24-GB	RMCM-230-GB	RGLED24V_Y
Green	RMCM-24-GN	RMCM-230-GN	RGLED24V_G
Red	RMCM-24-RT	RMCM-230-RT	RGLED24V_R
White	RMCT-GWS	RMCM-230-WS	
Clear	RMCM-24-WS	RMCM-230-KL	



MONO



MODULAR

SCHLEGEL Selector Switches

MOMENTARY & MAINTAINED MONO SELECTOR SWITCHES

#1582

SEARCH ON EXPRESS.ECSNZ.COM



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

Part No.	Positions		Mechanism
Selector Only			
RMCWA	2	Left / Right	Standard Dial
RMCWB	3	Left / Middle / Right	Standard Dial
RMWCW	3	Left / Middle / Right (Spring Return)	Standard Dial
RMCSTB	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

SEARCH ON EXPRESS.ECSNZ.COM



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

Part No.	Volts	Description
RSG-24V	24	Warning Buzzer 24V



SCHLEGEL Stop Buttons

LATCHING & MOMENTARY STOP BUTTONS

#1589

SEARCH ON EXPRESS.ECSNZ.COM



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



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

SCHLEGEL RJ45 and USB

RJ45 & USB PANEL MOUNT BUTTONS WITH COVER

#1583

SEARCH ON EXPRESS.ECSNZ.COM



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

Protection

- IP50
- IP65
- IP67

Part No.	Outside	Inside	IP Open	IP Closed
RJ45				
RRJ_RJ45_WC	RJ45	RJ45	IP50	IP67
USB				
RRJ_USB_AB_WC	USB Type A	USB Type B	IP65	IP67
RRJ_USB_WC	USB Type A	USB Type A Male + 60cm Cable	IP65	IP67



RJ45



USB

SCHLEGEL Labels

LABEL FOR 22MM PUSHBUTTONS

#1585

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Part 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

Part No.	Label
Accessories	
RABT	Label Holder for 22mm Pushbuttons
BZ23U	Blank Label for 22mm Pushbuttons



BLANK



PRINTED



HOLDER

SCHLEGEL Contact Blocks

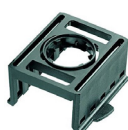
MODULAR CONTACT BLOCKS & HOLDERS FOR 22MM PUSHBUTTONS

#1588

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MHR_3



MHR_5



MTO



MTON



MTIV



MTI



MF

Part 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

Wieland Timers

FLARE CHANGE-OVER TIMERS

#99

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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

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



Multi-Function



Twin Timer

Part 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

#97

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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

Heavy Duty Series

Suitable for more demanding switching applications with higher switching loads. The 24Vdc version has a manual trigger button 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

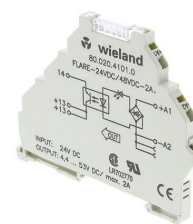
Designed for high speed switching applications. Because there are no moving parts this means they can switch faster and for a longer period of time.



Compact



Heavy Duty



Solid State

Part 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 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



Part No.	Vdc	Current (A)	Dimensions (WxHxD)	Input (V)	Watt
Single Phase					
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.



Single Phase

Three Phase

Part No.	Vdc	Current (A)	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		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



POWER SUPPLIES

Wieland UPS

UNINTERRUPTIBLE POWER SUPPLY FOR CRITICAL APPLICATIONS

#96



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Features

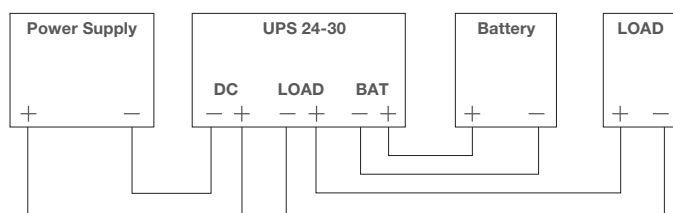
- Suitable for Lead-Acid and Lead-Gel Batteries
- Suitable for up to 30A
- Charges and monitors the battery condition
- Alarm output for battery failure
- Alarm output for battery discharging (primary power lost)
- LED indication for module status

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.



Part 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



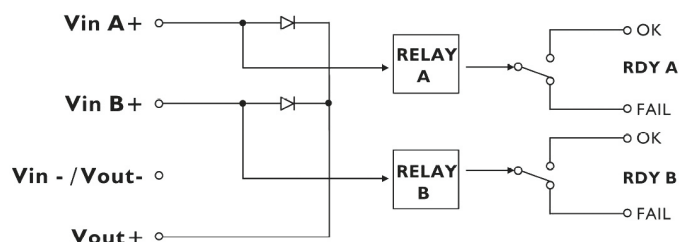
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Features

- 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 and alarm is triggered.



Part 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



Trying to save space in your cabinets?

Save up to 50% of space with our new slim-line Power Supplies

These premium compact power supplies will make life manageable when you are assembling those tight control cabinets. Up to 50% smaller than our traditional Wieland power supplies and significantly lighter.



Wieland Power Supplies - Slimline DIN-RAIL MOUNTED SWITCHED-MODE SLIMLINE POWER SUPPLY

#96



SEARCH ON EXPRESS.ECSNZ.COM

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 idea for applications where space is at a premium.



Standard vs Slimline



Part 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

Fuse Holder Inserts, Bases & Plates

FOR ISOLATION AND PROTECTION OF CIRCUITS

#1376 & #1381
SEARCH ON EXPRESS.ECSNZ.COM



Description

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

Conductor Sizes

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

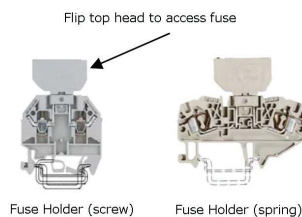
Available in both Spring Clamp and Screw terminal options.

Features

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

Current Rating

- Dependant on fuse



Part 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	

Fuse Holder Terminals

FOR ISOLATION AND PROTECTION OF CIRCUITS

#281
SEARCH ON EXPRESS.ECSNZ.COM



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 most strong and robust fuse holder in the range.

Current Rating

- Dependant on fuse



Part 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	Screw

Resettable Blade Fuse

MINIATURE CIRCUIT BREAKER

#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

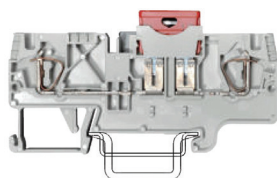
Available in Spring Clamp only

Features

- LED indication which is very useful when fault finding.

Current Rating

- Dependant on fuse



Part 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	Spring

Automotive Fuse Terminals

FOR ISOLATION AND PROTECTION OF CIRCUITS

#1377
SEARCH ON EXPRESS.ECSNZ.COM



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. They have built in over current protection.



Part No.	Current Rating	Voltage	Height
BLADE MCB			
1180-01-2.5A	2.5A	Up to 250V	55mm
1180-01-4A	4A	Up to 250V	55mm

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

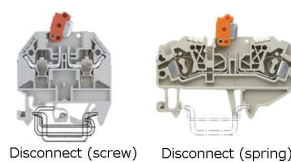
Features

- Available in both Spring Clamp and Screw terminal options.

Current Rating

- 20A

Part 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



Disconnect (screw) Disconnect (spring)

Basic Cable Ties

BASIC CABLE TIES

#108

SEARCH ON EXPRESS.ECSNZ.COM



Benefits

- High resistance to bases, oils, greases, oil derivatives, 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

Dimensions	1000 Pack	500 pack	100 pck
White			
98mm x 2.5mm	61831001-1000		61831001-100
160mm x 2.5mm	61831003-1000		61831003-100
200mm x 2.6mm	61831004-1000		61831004-100
200mm x 3.6mm	61831006-1000		61831006-100
290mm x 3.6mm		61831007-500	61831007-100
200mm x 4.8mm			61831011-100
290mm x 4.8mm			61831014-100
360mm x 4.8mm			61831016-100
450mm x 7.8mm			61831023-100
Black			
98mm x 2.5mm	61831041-1000		61831041-100
140mm x 3.6mm	61831045-1000		61831045-100
160mm x 2.5mm	61831043-1000		61831043-100
160mm x 4.5mm	61831049-1000		61831049-100
200mm x 2.6mm	61831044-1000		61831044-100
200mm x 3.6mm	61831046-1000		61831046-100
290mm x 3.6mm		61831047-500	61831047-100
200mm x 4.8mm	61831051-1000		61831051-100
370mm x 3.6mm			61831053-100
290mm x 4.8mm			61831054-100
360mm x 4.8mm			61831056-100
365mm x 7.8mm			61831062-100
450mm x 7.8mm			61831063-100
540mm x 7.8mm			61831064-100
750mm x 7.8mm			61831065-100



TY- RAP®

WEATHER-PROOF, UV-STABILISED CABLE TIES

#106

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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			61723120-100	
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



Shrink Tube

SHRINK TUBES FOR APPLICATIONS IN CONTINUOUS USE

#109

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Benefits

- Fulfills 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

Part 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

Spring Terminals

SPRING CLAMP TERMINALS

#274

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Conductor Sizes

- Stranded: 0.13mm² to 2.5mm²
- Solid: 0.13mm² to 4mm²

Current Rating

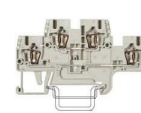
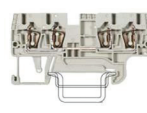
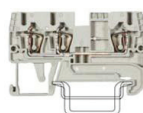
- 24A

Terminal Width

- 5mm

Voltage Rating

- 800V



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		
	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					
Grey Jumper Bar	Z7.282.5227.0	Z7.282.5327.0	Z7.282.5427.0	Z7.282.5527.0	
	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					
Grey Jumper Bar	Z7.283.8227.0				

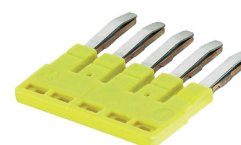
DIN Rail Terminal - Jumper Options

FOR SCREW AND SPRING CLAMP TERMINALS

#111

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	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			

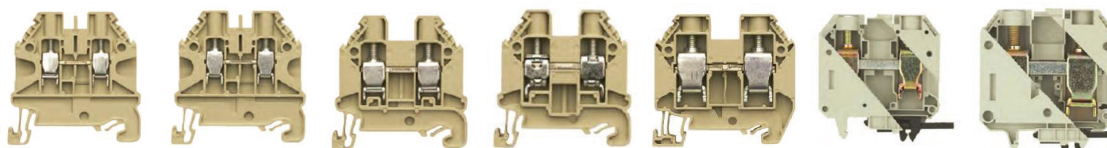


Screw Terminals

2 POLE SCREW TERMINALS

#279

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Type	2.5mm WT 2,5	4mm WT 4	6mm WT 6	10mm WT 10	16mm WT 16	35mm WKN 35/U	70mm 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		

Multi-tier Screw Terminals

DOUBLE & SINGLE DECK SCREW TERMINALS

#279

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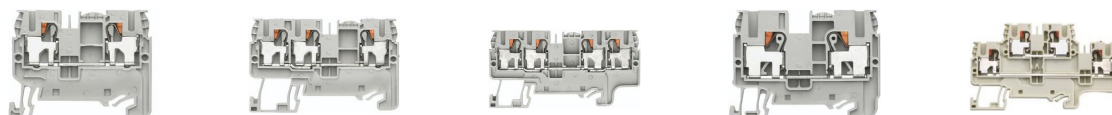
Type	Double Deck		Single Deck	
	2.5mm 4 Pole (WKN 2,5 E/U)	4mm 4 Pole (WT 4 E)	4mm 3 Pole (WT 4 D1/2)	4mm 4 Pole (WT 4 D2/2)
Grey Terminal	57.403.7055.0	58.504.7055.0	58.504.5055.0	58.504.5155.0
Grey End Plate	07.312.1755.0	07.313.3355.0	07.313.2955.0	07.313.3155.0
Grey Partition Plate	07.312.1855.0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

Push Terminals

DIN RAIL TERMINAL BLOCKS WITH PUSH-IN CONNECTION

#116

SEARCH ON EXPRESS.ECSNZ.COM



Type	2.5mm Single Deck		6mm Single Deck		2.5mm Double Deck
	2 Pole (WKN 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	07.312.1755.0	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				

Motor Connection Terminal

UP TO 4MM CONDUCTORS



#116

SEARCH ON EXPRESS.ECSNZ.COM

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.



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

Reduction Terminal

16MM DOWN TO 2.5MM/4MM



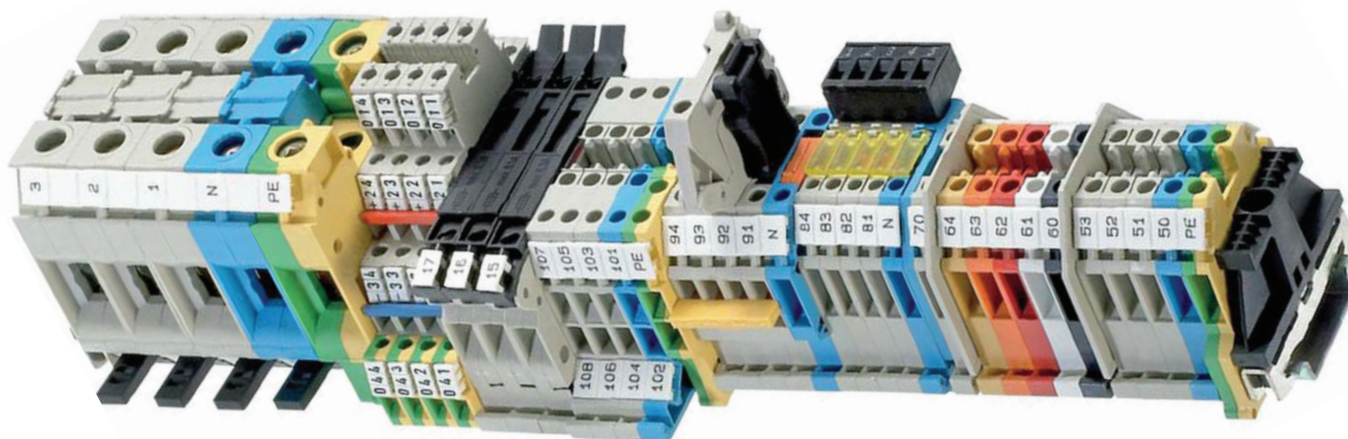
#274

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



	WKF 16/35PV/WKFN
Grey Terminal	56.704.8453.0
Grey End Plate	Fully Enclosed



Wieland Sensor Terminals

SPRING CLAMP TERMINALS

#1380



SEARCH ON EXPRESS.ECSNZ.COM

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

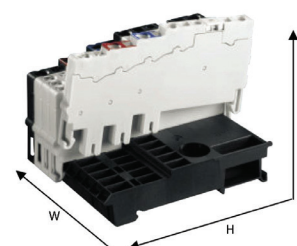
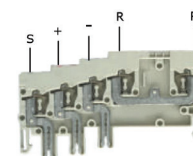
- 5mm

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)



Part No.	Description
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
Backplane	
69.700.0953.0	Base Block (8 IO Slots + 1 Power)
69.700.1853.0	Base Block (17 IO Slots + 1 Power)

Pluggable Terminals

SPRING CLAMP TERMINALS - PLUG AND PLAY

#278



SEARCH ON EXPRESS.ECSNZ.COM

Details

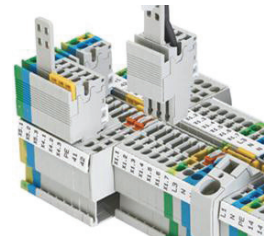
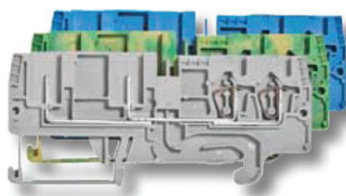
Pluggable terminal range. A special range of terminals with connectors on one side, and spring terminals on the other.

Advantages

- Fast error free terminations
- Saves installation time on site

Terminal Size

- 2.5mm Spring Type



Type	2 Terminals / 2 Connectors		Connector Parts			
	WKFN 2,5 2P/2F	WKFN 2,5 E/..../..	Left	Mid	Right	Cable Fixing
	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



Part 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)
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	+ (X10)
04.841.7550.0	- (X10)

Part No.	Type
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)
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)

Pluggable Terminals

SPRING CLAMP TERMINALS - PLUG AND PLAY



Part 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	
98.300.1000.0	35mm x 7.5mm Slotted Din Rail (2m)

Wieland NRG Flat Cable System

LIGHTING POWER DISTRIBUTION CABLE

#1405

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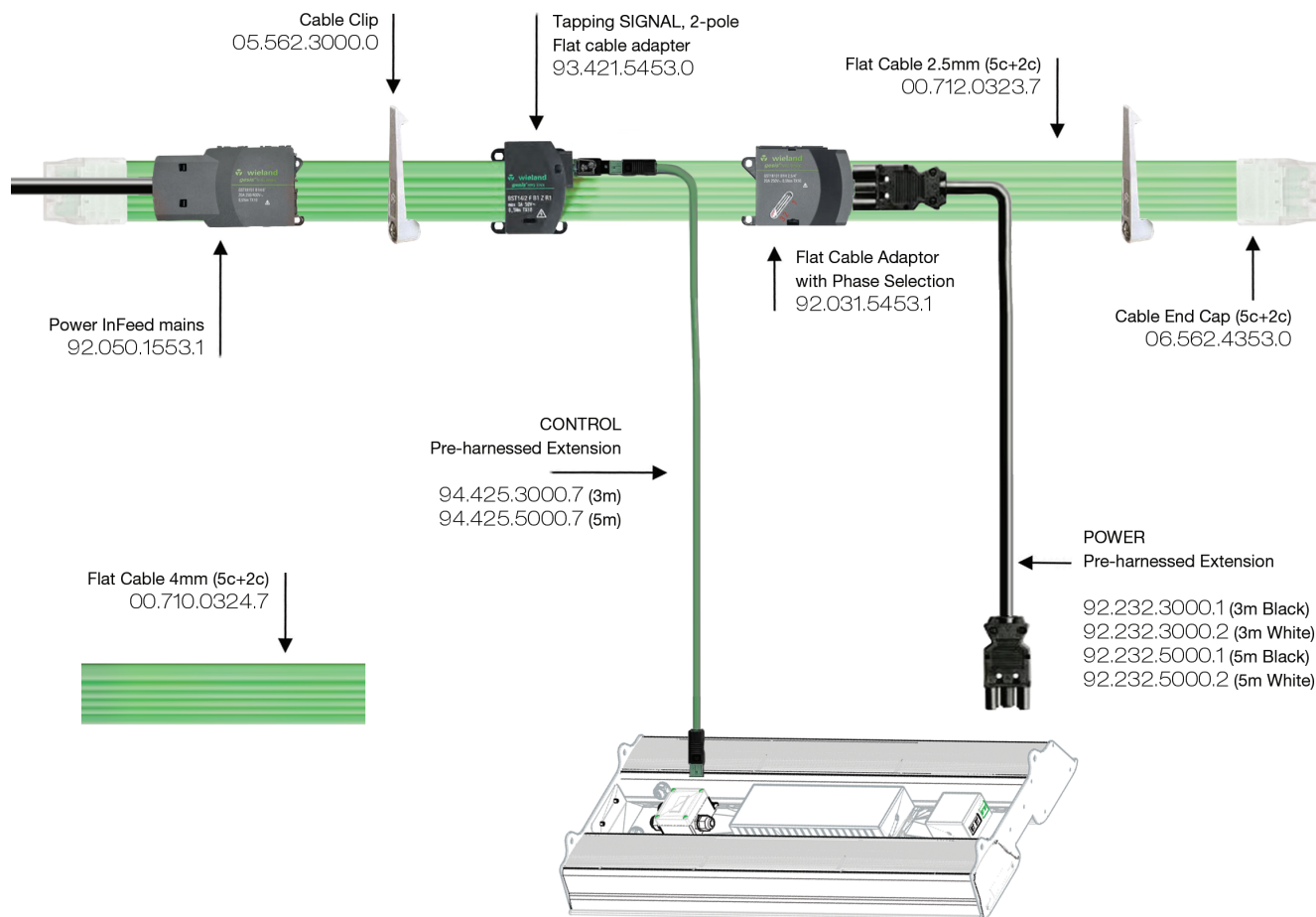


Details

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



Part 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 Stripping tool for ends	

Wieland GST - 3 Pole 18i3

SINGLE PHASE CONNECTORS FOR LIGHTING

#124



SEARCH ON EXPRESS.ECSNZ.COM

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

Voltage Rating

- 3 Pole - 250
- 5 Pole - 400

Current Rating

- 20A

Applications

- Commercial Lighting
- General Power Distribution

Part 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				
92.030.4853.1		Distribution Block - 1 IN / 2 OUT		
92.030.5353.1		Distribution Block - 1 IN / 3 OUT		
92.030.5253.1		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)		

Wieland GST - 5 Pole 18i5

SINGLE PHASE CONNECTORS FOR LIGHTING

#124



SEARCH ON EXPRESS.ECSNZ.COM

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

Voltage Rating

- 3 Pole - 250
- 5 Pole - 400

Current Rating

- 20A

Applications

- Commercial Lighting
- General Power Distribution

Part 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)		

Wieland RST - 3 Pole 20A Range

IP68 SINGLE PHASE CONNECTORS

#125



SEARCH ON EXPRESS.ECSNZ.COM

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

Part No.	Rating	Type	Cable OD	Hole Size
Connectors				
96.032.4053.1	250V / 20A	Male Connector	6-10mm	
96.031.4053.1	250V / 20A	Female Connector	6-10mm	
96.032.4153.1	250V / 20A	Male Connector	10-14mm	
96.031.4153.1	250V / 20A	Female Connector	10-14mm	
Panel Mount				
96.032.5053.1	250V / 20A	Male Panel Mount		M25
96.031.5053.1	250V / 20A	Female Panel Mount		M25
Splitters				
96.030.0153.1	250V / 20A	Splitter -1 male / 3 Females		
Sealing Cap				
99.416.6205.2		Sealing Cap for Male Connectors (includes cable noose)		
99.414.6205.2		Sealing Cap for Female Connectors (includes cable noose)		



Female 96.031.4053.1



Male 96.032.4053.1



Wieland RST - 5 Pole 20A Range

IP68 SINGLE PHASE CONNECTORS

#125



SEARCH ON EXPRESS.ECSNZ.COM

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

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



Female 96.051.4153.1



Male 96.052.4153.1



Wieland RST - 5 Pole 50A Range

IP68 THREE PHASE CONNECTORS

#125



SEARCH ON EXPRESS.ECSNZ.COM

Details

Plastic waterproof connection solutions. Made from extremely tough UV resistant plastic. Connection is made via screwing connector to the panel mount and can be locked via a red key lock. A screwdriver is required to release the connection.

Conductor Sizes

- 4mm² to 16mm²

Voltage Rating

- 400V

Current Rating

- 50A

Applications

- Large Conductor Applications (up to 16mm²)

IP Rating

- IP68 (3m / 2h)

Part No.	Rating	Type	Cable OD	Hole Size
Connectors				
97.052.4053.1	400V / 50A	Male Connector	15-25mm	
97.051.4053.1	400V / 50A	Female Connector	15-25mm	
97.052.4253.1	400V / 50A	Male Connector	20-32mm	
97.051.4253.1	400V / 50A	Female Connector	20-32mm	
Panel Mount				
97.052.5553.1	400V / 50A	Male Panel Mount		M32
97.051.5553.1	400V / 50A	Female Panel Mount		M32
Sealing Cap				
Z5.567.5653.0		Sealing Cap for Male or Female Connectors		



Female 97.051.4053.1



Male 97.052.4053.1



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

Current Rating

- 400A

IP Rating

- IP67

Panel Drains



Part 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 Parts Part number includes housing and contact with M12 stud

Panel Source



Part 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 Parts Part number includes housing and contact with M12 stud

Line Drain



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

Line Source



Part 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 Parts 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

Part 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
LAPP-44420251	PowerLock Protection Cap D6	For Line Source Connectors	IP54
LAPP-44420252	PowerLock Protection Cap A1	For Panel Drain Connectors	IP54
LAPP-44420253	PowerLock Protection Cap A6	For Panel Source Connectors	IP54



LAPP GROUP

EPIC®

Your partner for
perfect connections



EPIC HA 3+E & 4+E Pole Series

IP65 CONNECTORS FOR STANDARD INDUSTRIAL SENSORS

#1416

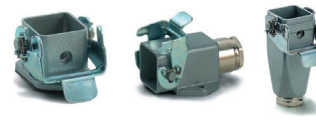
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Multi-Pole Inserts



Metal Hoods



Metal Bases & Couplers

Part 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

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Multi-Pole Inserts



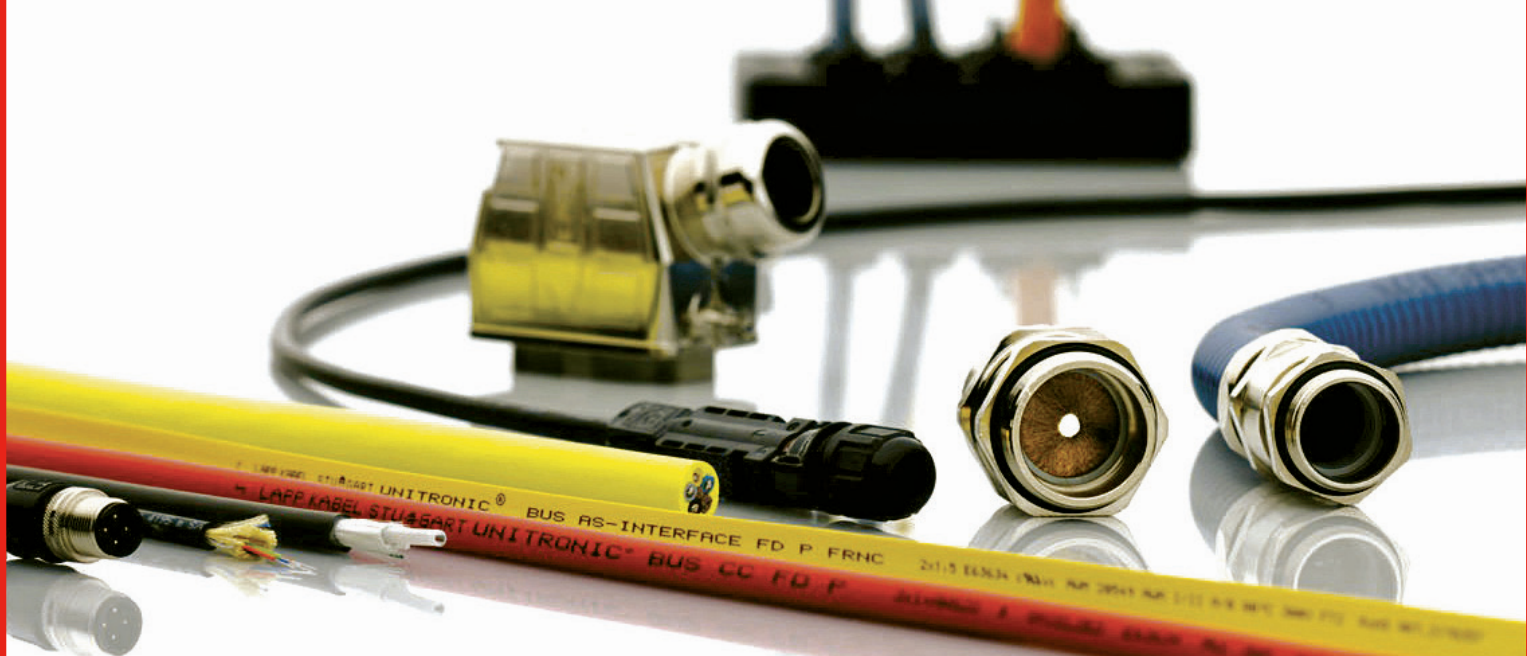
Metal Hoods



Metal Bases & Couplers

Part 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
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						



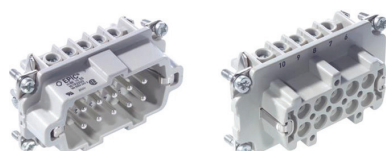


EPIC HB 10+E Pole Series

IP65 CONNECTORS FOR STANDARD INDUSTRIAL SENSORS

#131

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Multi-Pole Inserts



Metal Hoods



Metal Bases & Couplers

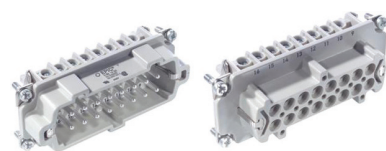
Part No.	Type	Poles	Rating	Thread	Gland (Plastic)	Gland (Spiral)	Gland (Metal)
Multi-Pole Inserts							
10192000	Male insert	10 + earth	500V / 16A				
10193000	Female insert	10 + earth	500V / 16A				
Metal Hoods							
10040000	Straight - 4 stud			PG16	53015040	53015640	52015740
10040100	Straight - 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

SEARCH ON EXPRESS.ECSNZ.COM



Multi-Pole Inserts

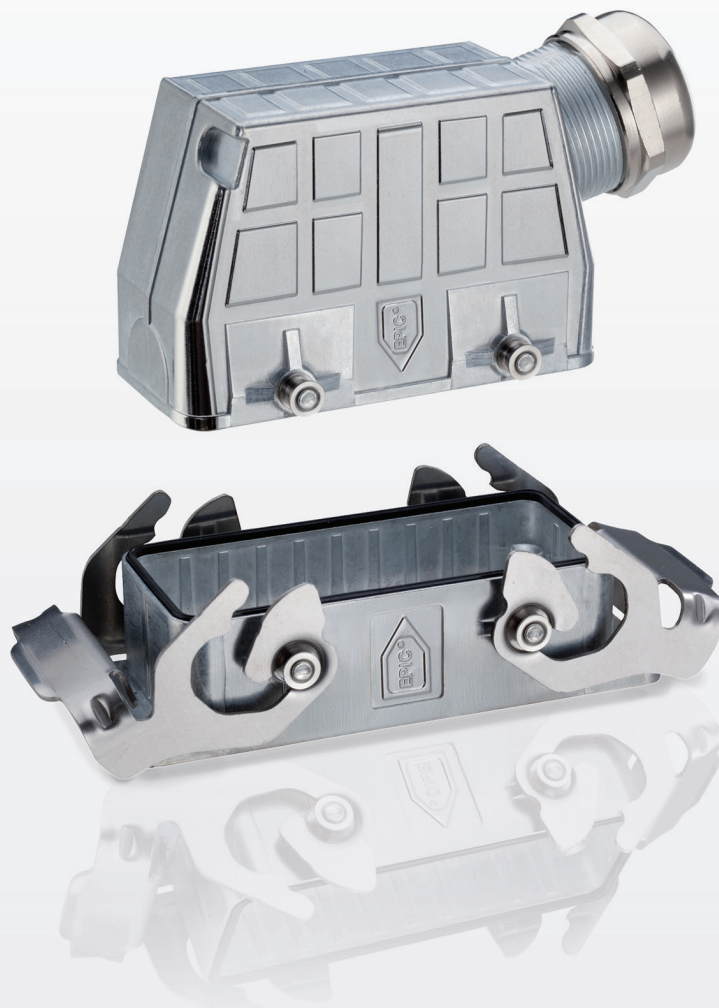


Metal Hoods



Metal Bases & Couplers

Part 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



The New EPIC® ULTRA

The new EPIC® ULTRA - with Stainless Steel levers and a special overall coating. These new connectors are suitable for washdown and marine applications, they also have a special EMC screen for better immunity from electrical interference.

EPIC HB 24+E Pole Series

IP65 CONNECTORS FOR STANDARD INDUSTRIAL SENSORS

#133



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Multi-Pole Inserts



Metal Hoods



Metal Bases & Couplers

Part 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

Metal connectors commonly used for rotary encoders. EPIC connectors are compatible with most common encoders. Terminations are done via solder buckets.

Conductor Sizes

- From 0.14mm² to 1mm² Conductors

Voltage Rating

- 100V

Current Rating

- 7A

IP Rating

- IP68



D6



F6



A1



Part 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



SEARCH ON EXPRESS.ECSNZ.COM

Details

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



9 Pin



12 Pin



16 Pin



17 Pin



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
SEARCH ON EXPRESS.ECSNZ.COM



Details

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.)

Conductor Sizes

- Power Pins: From 0.5mm² to 4mm² Conductors
- Small Pins: From 0.14mm² to 1mm² Conductors

Voltage Rating

- 630V

Current Rating

- 25A (Power Pins)
- 7A (Small Pins)

IP Rating

- IP68



D6



F6



A1

Part No.	Type	Contacts	Description	Clamping Range
D6				
73000005	D6	5 + E	Standard Connector	10.5 to 15.5mm
73000001	D6	3 + E + 4	Standard Connector	10.5 to 15.5mm
F6				
73000013	F6	5 + E	Coupler Connector	10.5 to 15.5mm
73000009	F6	3 + E + 4	Coupler Connector	10.5 to 15.5mm
A1				
76003000	A1	5 + E	Panel Mount	
76004000	A1	3 + E + 4	Panel Mount	

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



	Poles	Key Coding	Shielded	Cable OD	Male / Pin		Female / Socket	
					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		22260640	
	5 Pole	A		6mm	22260129	22260130	22260127	22260128
	8 Pole	A		6mm	22260652		22260645	
Shielded	5 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



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Lead Length	Male / Pin Straight PUR	Male / Pin Right Angle PUR	Female / Socket Straight PUR	Female / Socket Straight PVC	Female / Socket Right Angle	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 M8 Field Wireable Connectors

SCREW TERMINAL SERIES

#141



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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 / Pin	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 Sensor Distribution Boxes

DISTRIBUTION BOXES AVAILABLE WITH M8 OR M12 CONNECTORS

#1364 / #1365

SEARCH ON EXPRESS.ECSNZ.COM



Passive (Conventional Wiring)

- 4 or 8 Slot x M12
- 4 or 8 Slot x M8

Active Fieldbus

- Profibus
- DeviceNet
- AS-I



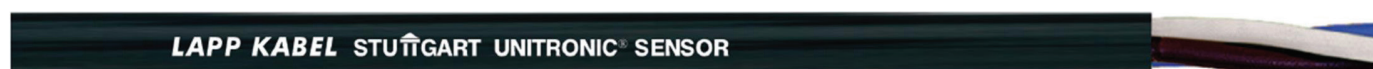
Part No	Description	Type	Thread
Sensor Blocks (#1364)			
22260031	Sensor Block M8 with 8 slots and LED indication	10m	M8
22260036	Sensor Block M8 with 8 slots and LED indication	Terminal Block	M8
22260002	Sensor Block M12 with 4 slots and LED indication		M12
Covers (#1365)			
ZVKM	Sealing Cap for M8 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



Part No.	Size	Conductors							
		1	2	3	4	5	6	7	8
7038864	3 x 0.34	brown	blue	black					
7038865	4 x 0.34	brown	white	blue	black				
7038866	5 x 0.34	brown	white	blue	black	grey			
7038868	8 x 0.25	white	brown	green	yellow	grey	pink	blue	red

UNITRONIC Valve Connectors with leads

PUR BLACK CABLE - INCLUDES MARKER SLEEVES

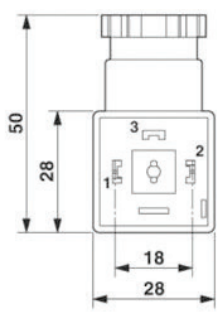
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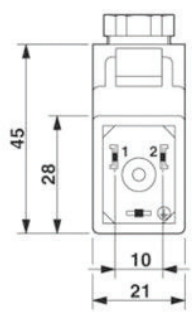
Lead Length	Type A (18mm)	Type B (10mm)	Type BI (11mm)	Type C (8mm)	Type CI (9.4mm)
3 Pole (1 LED)					
2m	22260584	22260585	22260586	22260587	22260588
5m	22260576	22260578	22260580	22260582	22260574
10m	22260577	22260579	22260581	22260583	22260575
5 Pole (2 LED)					
2m	22260589				
5m	22260590				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



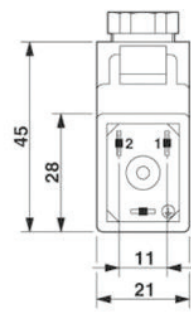
VALVE CONNECTOR SELECTION OPTIONS



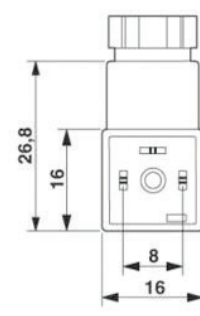
Type A (18mm)



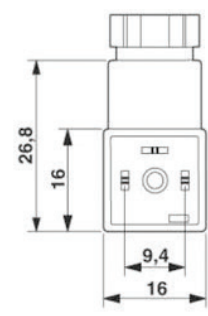
Type B (10mm)



Type BI (11mm)



Type C (8mm)



Type CI





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	65500310	65500320	65500340	65500350	65500360		65500380
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		65500325	65500345	65500355	65500365		
Conduit Clip2	55506915	55506925	55506935	55506945	55506955	55506965	55506975

SILVYN Liquid Tight Conduit

FLEXIBLE CONDUIT WITH STEEL INNER WALL

#149

SEARCH ON EXPRESS.ECSNZ.COM



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	55503241	55503242	55503243	55503244	55503245	55503246
45 Degree Gland	55503250	55503251	55503252	55503253	55503254	55503255
90 Degree Gland	55503260	55503261	55503262	55503263	55503264	55503265
Locknut (Metal)	52103010	52103020	52103030	52103040	52103050	52103060

Cables for Export to the USA & Canada

UL APPROVED CABLES

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 KABEL 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.

Please contact our sales team if you have any questions regarding your requirements.

For more UL cable options try our website below:
www.lappgroup.com



Stop

AWM is no longer valid

Caution

NFPA 79 2007-
Standards have changed

Go

MTW is one road to
take to follow the new
standard

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	4160508	4160608			
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

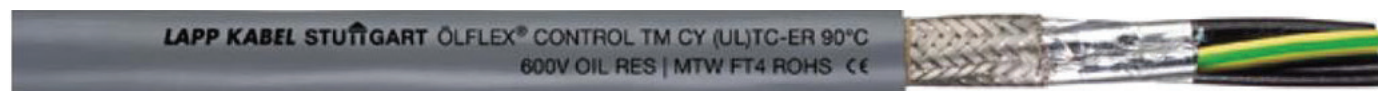
ÖLFLEX UL - Control TM CY

EMC SCREENED FLEX FOR DRIVES



#1333

SEARCH ON EXPRESS.ECSNZ.COM



Part 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
AWM STYLE 2587 or 21098 CSA AWM IA/BII 600V FT1 90 °C



Part 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



Part 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

UL CABLE

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

Temperature Rating

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

Protection

- IP68 - 5 bar
- IP69K



Size	Clamping Range	Thread Length	Packet Size	Size	Gland	Locknut	Gland	Locknut
Nylon metric thread cable gland								
M12	3.5 to 7mm	8	100	M12	53111200	53119100	53111000	53119000
M16	4.5 to 10mm	8	100	M16	53111210	53119110	53111010	53119010
M20	7 to 13mm	9	100	M20	53111220	53119120	53111020	53119020
M25	9 to 17mm	10	50	M25	53111230	53119130	53111030	53119030
M32	11 to 21mm	10	25	M32	53111240	53119140	53111040	53119040
M40	19 to 28mm	10	10	M40	53111250	53119150	53111050	53119050
M50	27 to 35mm	12	5	M50	53111260	53119160	53111060	53119060
M63	34 to 45mm	12	5	M63	53111270	53119170	53111070	53119070
Nylon PG thread cable gland								
PG7	2.5 to 6.5mm	8	100	PG7	53015200	53019200	53015000	53019000
PG9	3.5 to 8mm	8	100	PG9	53015210	53019210	53015010	53019010
PG11	4 to 10mm	8	100	PG11	53015220	53019220	53015020	53019020
PG13.5	6 to 12mm	9	100	PG13.5	53015230	53019230	53015030	53019030
PG16	9 to 14mm	10	50	PG16	53015240	53019240	53015040	53019040
PG21	13 to 18mm	11	50	PG21	53015250	53019250	53015050	53019050
PG29	14 to 25mm	11	25	PG29	53015260	53019260	53015060	53019060

SKINTOP Spiral Cable Glands

CABLE GLANDS WITH SPIRAL STRAIN RELIEF



#160



SEARCH ON EXPRESS.ECSNZ.COM

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	Packet Size	Size	Gland	Locknut	Gland	Locknut
Metric Thread								
M12	3.5 to 7mm	8	100	M12	53111700	53119100	53111600	53119000
M16	4.5 to 10mm	8	100	M16	53111710	53119110	53111610	53119010
M20	7 to 13mm	8	50	M20	53111720	53119120	53111620	53119020
M25	9 to 17mm	9	25	M25	53111730	53119130	53111630	53119030
M32	11 to 21mm	10	25	M32	53111740	53119140	53111640	53119040
PG Thread								
PG7	2.5 to 6.5mm	8	100	PG7	53015800	53019200	53015600	53019000
PG9	3.5 to 8mm	8	100	PG9	53015810	53019210	53015610	53019010
PG11	4 to 10mm	8	100	PG11	53015820	53019220	53015620	53019020
PG13.5	6 to 12mm	9	50	PG13.5	53015830	53019230	53015630	53019030
PG16	9 to 14mm	10	25	PG16	53015840	53019240	53015640	53019040
PG21	13 to 18mm	11	25	PG21	53015850	53019250	53015650	53019050

SKINTOP®

ECOLAB® approved
glands for food and
beverage



 EXPRESS.ECSNZ.COM

Tired of worrying about long term water ingress?

Put your trust in SKINTOP, tested for every possible application

LAPP test their SKINTOP glands for many different application. IP66 for water spray, IP67/68 for immersion, and IP69K for high pressure water blasting. LAPP have you covered from basic IP rated glands, to high performance FDA & Ecolab approved glands for food and beverage areas.

- Corrosion-resistant
- Sea water-resistant
- Smooth surfaces
- Compact design
- Variable clamping ranges

Order online at express.ecsnz.com

SKINTOP Brass cable glands

METAL CABLE GLANDS FOR TOUGH ENVIRONMENTS



#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	Packet Size	Size	Gland	Locknut
Metric Thread						
M12	3 to 7mm	6.5	100	M12	53112000	52103000
M16	4.5 to 10mm	7	100	M16	53112010	52103010
M20	7 to 13mm	8	50	M20	53112020	52103020
M25	9 to 17mm	8	25	M25	53112030	52103030
M32	11 to 21mm	9	25	M32	53112040	52103040
M40	19 to 28mm	9	10	M40	53112050	52103050
M50	27 to 35mm	10	5	M50	53112060	52103060
M63	34 to 45mm	15	5	M63	53112070	52103070
M63 Plus	44 to 55mm	15	5	M63 Plus	53112080	52103070
PG Thread						
PG7	2 to 6.5mm	6.5	100	PG7	52015700	52003490
PG9	4 to 8mm	7	100	PG9	52015710	52003500
PG11	4 to 10mm	8	50	PG11	52015720	52003510
PG13.5	5 to 12mm	8	50	PG13.5	52015730	52003520
PG16	8 to 14mm	9	50	PG16	52015740	52003530
PG21	11 to 18mm	9	25	PG21	52015750	52003540
PG29	16 to 25mm	10	25	PG29	52015760	52003550

SKINTOP Thread Adapters and Reducers

FOR SWAPPING BETWEEN THREAD TYPES

#164

SEARCH ON EXPRESS.ECSNZ.COM

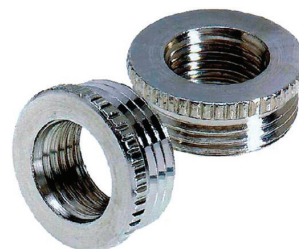


Construction

- Nickel plated brass

Temperature Rating

- 60 to 200



Part No.	Outer Thread	Inner Thread
Reducers M to M Threads		
52104310	M16	M12
52104311	M20	M12
52104312	M20	M16
52104313	M25	M16
52104314	M25	M20
52104316	M32	M25
52104318	M40	M32
52104319	M50	M32
Enlargers M to M Threads		
52104452	M16	M20
52104454	M20	M25
52104456	M25	M32
52104458	M32	M40
52104460	M40	M50
52104462	M50	M63
Adapters PG to M Threads		
52104491	PG9	M16
52104493	PG11	M20
52104494	PG13.5	M20
52104495	PG16	M20
52104496	PG16	M25
52104497	PG21	M20
52104498	PG21	M25
52104499	PG21	M32
52104500	PG29	M25
52104503	PG36	M40

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



COMPRESSION GLANDS



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

SKINTOP MS-M BRUSH

EMC CABLE GLAND FOR VSD DRIVES

#1548

SEARCH ON EXPRESS.ECSNZ.COM



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	Size	Gland	Standard Locknut	Spike Locknut
Standard Thread						
M25	9 to 17mm	8	M25	53112676	52103030	52103330
M32	11 to 21mm	9	M32	53112677	52103040	52103340
M40	19 to 28mm	9	M40	53112678	52103050	52103350
M50	27 to 35mm	10	M50	53112679	52103060	52103360
M63	34 to 45mm	15	M63	53112680	52103070	52103370
M63 Plus	44 to 55mm	15	M63 Plus	53112681	52103070	52103370
M25 (Reduced Clamping)	6 to 13mm	8	M25 (Reduced Clamping)	53112671	52103030	52103330
Extra Long Thread						
M25	9 to 17mm	12	M25	ECS-53112676-XL	52103030	52103330
M32	11 to 21mm	15	M32	ECS-53112677-XL	52103040	52103340
M40	19 to 28mm	15	M40	ECS-53112678-XL	52103050	52103350
M50	27 to 35mm	15	M50	ECS-53112679-XL	52103060	52103360

SKINTOP / INOX S/Steel Cable Glands

COMPACT STAINLESS STEEL CABLE GLANDS

#1341

SEARCH ON EXPRESS.ECSNZ.COM



Application Range

- Onshore marine applications
- Bottling plants and breweries
- Food industry (product-free zone, splash zone)

Material

Body: Stainless steel - V4A (1.4404 / 316L)
Insert: Polyamide
Sealing ring: Silicone
O-Ring: Silicone

Protection Rating

IP 68 - 10 bar (M12 - M20)
IP 68 - 5 bar (M25 - M32)
IP 69 K

Temperature Range

-40°C to +100°C



Item No.	Thread Length	Minimum Diameter (Shield)
53806739	M12x1.5 (316 Stainless)	4 to 7
53806750	R M16x1.5 (Reduced Clamping)	5 to 7
53806740	M16x1.5 (316 Stainless)	6 to 10
53806741	M20x1.5 (316 Stainless)	7 to 13
53806742	M25x1.5 (316 Stainless)	9 to 17
53806743	M32x1.5 (316 Stainless)	11 to 21

SKINTOP BRUSH - ADD ON

CONVERT ANY SKINTOP GLAND INTO A VSD GLAND

#166

SEARCH ON EXPRESS.ECSNZ.COM



Construction

- Nickel plated brass housing with brass brush.

Protection

- IP rating based on gland used

Temperature Rating

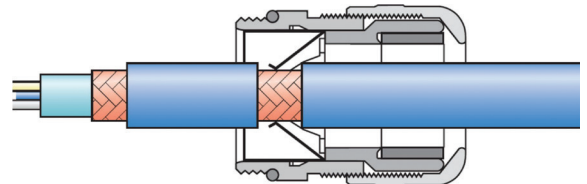
- 70 to 200



Size	Thread Length	Minimum Diameter (Shield)	Size	Brush Locknut
M16	10	5 mm	M16	54110840
M20	10	5 mm	M20	54110841
M25	10	5 mm	M25	54110842
M32	12	8 mm	M32	54110843
M40	12	10 mm	M40	54110844
M50	12	14 mm	M50	54110845

INSTALLATION INSTRUCTIONS

- Pass the cable through the gland
- Pull through as much cable as required in the cabinet
- Pull an extra 100mm of cable through the gland
- Strip off 10mm of insulation from the cable (do not strip the screen)
- Pull the cable back out of the gland so the stripped area is under the EMC flaps
- Tighten the compression gland



ICOTEK EMC Clamps

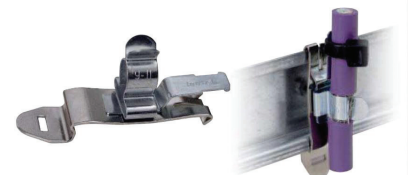
CLAMPS FOR CABLE SCREENS FOR WITHIN CABINETS

#167

SEARCH ON EXPRESS.ECSNZ.COM



Part 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)

Part 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

PINS FOR SEALING OFF UNUSED HOLES

Part No.	Pin Diameter	Length
53100005	5 mm	11 mm
53100006	6 mm	14 mm



Sealing Pins



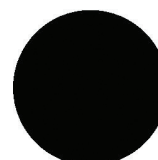
Standard Dix inserts for multiple cables



Special AS-I insert for flat cable (M20)



Special insert for RJ45 Ethernet cable (M25)



Solid rubber for sealing off glands



SKINTOP® CUBE
MAKING THE RIGHT CONNECTION
SKINTOP®

ICOTEK Split Gland System

FOR HIGH NUMBERS OF CABLE ENTRIES TO CABINETS

#1320

SEARCH ON EXPRESS.ECSNZ.COM



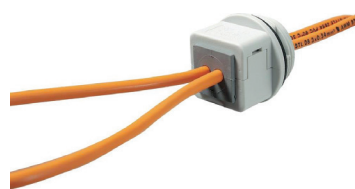
Part No.	Type	Number of inserts	Dimensions (h x w)
42204	KEL B4	4	58 x 73
42248	KEL24/5	5	58 x 147
42241	KEL24/10	10	58 x 147
42164	KEL16/4	4	58 x 120
42168	KEL16/8	8	58 x 120

ICOTEK Circular Split Gland

FOR LARGE CONNECTORS THROUGH CABINETS

#1318

SEARCH ON EXPRESS.ECSNZ.COM



Part No.	Type	Locknut	Thread	Numbers of Inserts
45035	KVT25	Included	M25	1
45036	KVT32	Included	M32	1
45214	KVT63-4	Included	M63	4

ICOTEK Split Gland System Inserts

INSERTS FOR SPLIT GLAND SYSTEM

#1319

SEARCH ON EXPRESS.ECSNZ.COM



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.

GLAND INSERTS



EKD Kolibri Series

DRAGCHAIN FOR COMMON APPLICATIONS`



#170

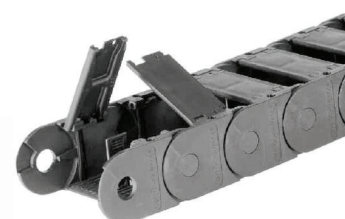


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Type	Bending Radius	Pitch	Inner Dimensions	Outer Dimensions
Without latches				
Kolibri 0	30	20	10 x 10	15 X 15
Kolibri 01	30	20	10 x 10	15 x 22
Kolibri 1	40 / 100	40	24 x 18	30 x 30
Kolibri 2	40 / 100 / 150 / 200	40	24 x 48	30 x 60
Kolibri 3	40 / 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	35	23 x 34	30 x 50
Kolibri 11.0	40 / 75 / 100 / 150	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	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



0800 849 2211



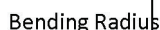
For Orders Freephone ECS Sales

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

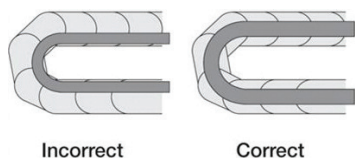
*More dragchain styles available on request



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.



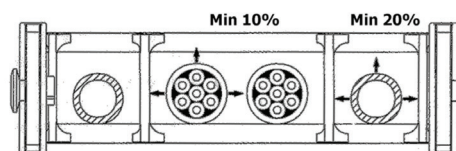
When installing cables in dragchain allow slack on the cables so they sit in the centre of the dragchain. Otherwise when the dragchain bends it will pull the cables tight and overstress them.



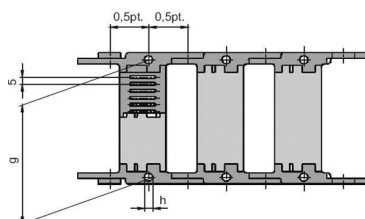
*We recommend calling our technical team when selecting dragchains

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



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

#174

SEARCH ON EXPRESS.ECSNZ.COM



Flexi-Print Label Construction

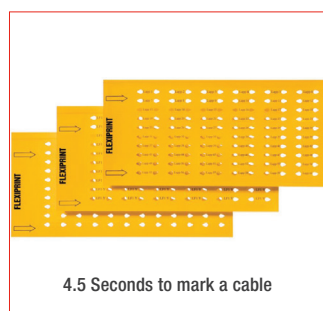
- Halogen Free polyester. Resistant against oils, water, common chemicals and UV Resistant

Feature

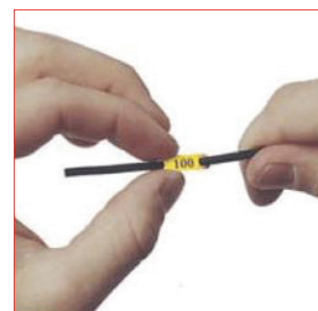
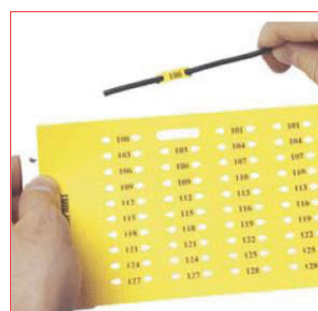
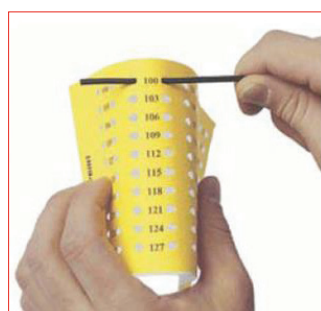
- Can be printed on using most common Laser printers



Part No.	Suitable App Wire (V90)	Suitable Control Cable (110)	Made from P/N	Labels / sheet	Pack Size
LAPP-FLEXIPRINT-1		0.25mm to 0.75mm	83254400	60	1 sheet
LAPP-FLEXIPRINT-2	0.5mm to 0.75mm	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

#1492

SEARCH ON EXPRESS.ECSNZ.COM

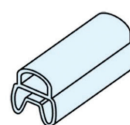


Flexi-Print Label Construction

- 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



Part No.	Description	Suitable App Wire (V90)	Suitable Control Cable (110)	Cable Ø	Pack Size	
15mm Clear Holders						
61823000	PT 02/15		0.25 to 1.5mm²	1.3 to 3mm	200	
61823010	PT 10/15	0.5 to 1.5mm²	1.5 to 4mm²	2.5mm to 5mm	200	
61823020	PT 20/15	2.5 to 6mm²	2.5 to 16mm²	4mm to 10mm	100	
61823030	PT 30/15	10 & 16mm²	16mm²+	8mm to 16mm	50	
21mm Clear Holders						
61823040	PT 02/21		0.25 to 1.5mm²	1.3 to 3mm	200	
61823050	PT 10/21	0.5 to 1.5mm²	1.5 to 4mm²	2.5mm to 5mm	200	
61823060	PT 20/21	2.5 to 6mm²	2.5 to 16mm²	4mm to 10mm	100	
61823070	PT 30/21	10 & 16mm²	16mm²+	8mm to 16mm	50	
Part 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

0800 849 2211

Freephone ECS Sales



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.



Part 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

0800 849 2211

Freephone ECS Sales

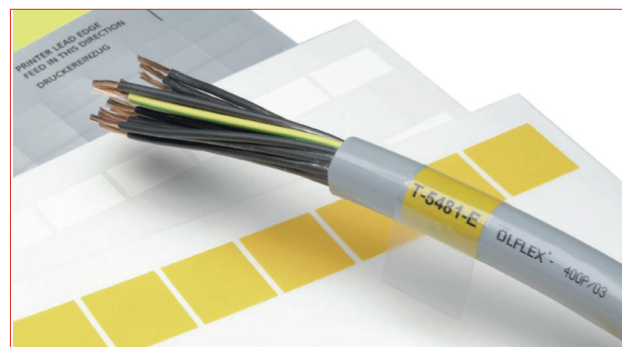


Flexi-Print Label Construction

- Halogen Free polyethylene.

Feature

- 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



Part 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



Features

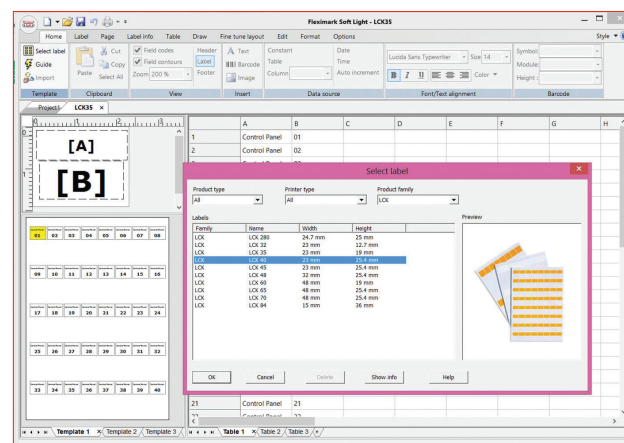
- Free to download and no expiry date
- Lines up the printing area for each label type
- Import label data direct from Microsoft Excel
- Many smart features including automatic number sequences.

Requirements

- Windows Operating System

Getting Started

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



CABLE MARKING

Colour Coding for Power Cables

For industrial factory and machine applications many of the cables are being designed and manufactured in Europe. Some cables use NZ/AS 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 New Zealand (AS/NZS 3000:2007 ref 3.8.3.3)

AS/NZS STANDARD



Cores
Application
Earth
Neutral
Phases

3	4	5
Single Phase	Three Phase	Three Phase + Neutral
Green/Yellow	Green/Yellow	Green/Yellow
Black		Black
Red	Red	Red
	White	White
	Blue	Blue



Accepted in NZ

VDE EUROPEAN STANDARD



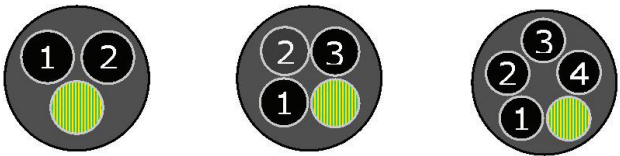
Cores
Application
Earth
Neutral
Phases

3	4	5
Single Phase	Three Phase	Three Phase + Neutral
Green/Yellow	Green/Yellow	Green/Yellow
Blue		Blue
Brown	Brown	Brown
	Black	Black
	Grey	Grey



Accepted in NZ

NUMBER CODED



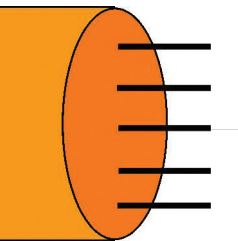
Cores
Application
Earth
Neutral
Phases

3	4	5
Single Phase	Three Phase	Three Phase + Neutral
Green/Yellow	Green/Yellow	Green/Yellow
2		4
1	1	1
	2	2
	3	3



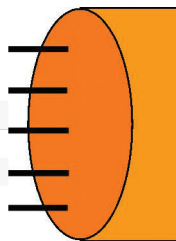
Accepted in NZ

CROSS-REFERENCE BETWEEN STANDARDS



Phase 1
Phase 2
Phase 3
Neutral
Earth

NZ/AS	European	Number Coded
Red	Brown	1
White	Black	2
Blue	Grey	3
Black	Blue	4
Green/Yellow	Green/Yellow	Green/Yellow



Accepted standards AS/NZS 3000:2007

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

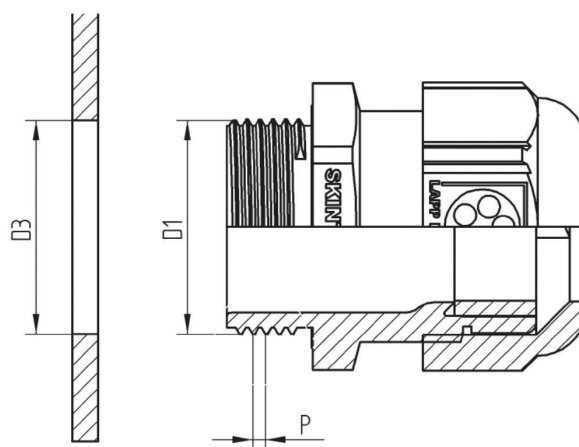


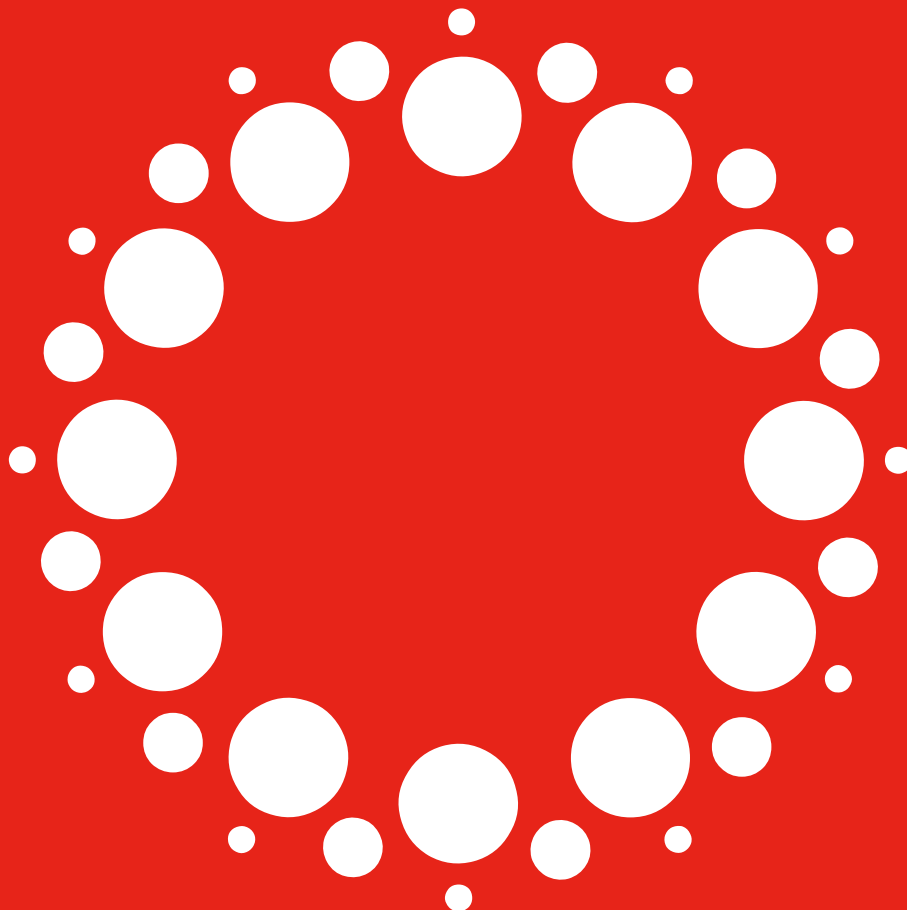
AWG	Actual mm ²	Closest Size
1	42.4	
2	33.6	
4	21.2	
6	13.3	
8	8.37	
10	5.26	6mm ²
12	3.31	4mm ²
14	2.08	2.5mm ²
16	1.31	1.5mm ²
18	0.823	1mm ²
20	0.519	0.75mm ²
22	0.324	0.5mm ²
24	0.205	0.25mm ²
26	0.128	0.14mm ²
28	0.0804	

Thread Sizes

HOLE SIZES FOR SKINTOP GLANDS

Metric Thread			
Size	Pitch	ø D1	Hole size ø D3
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





 **LAPP GROUP**

LS

MOXA

 **wieland**



ecs
ECSNZ.COM

ECS

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