

LAPP AUSTRALIA PRODUCT SELECTION GUIDE

CABLES / CABLE GLANDS / CONNECTORS / CONDUIT / ACCESSORIES





WELCOME TO LAPP AUSTRALIA

For over 30 years LAPP has been servicing Australian customers as a leading supplier of integrated solutions and products in the field of cable and connection technology.

To meet the demand from Australian industry for increased choice and greater access to the latest innovations, LAPP Australia was established in February 2018 as a fully-fledged subsidiary of the LAPP Group operating out of a 3100 square metre distribution warehouse and head office in Sydney.

Engineers and industrial specialists will now have access to over 25,000 German engineered products; such as flexible cables, industrial connectors and cable glands and accessories. LAPP products are fully tested & internationally certified to the highest standards to ensure maximum reliability, performance and safety.

Operating in diverse market sectors, LAPP Australia directly supplies and supports over 2,000 customers across Australia through the delivery of a high service level model and culture.

DEALING WITH LAPP AUSTRALIA IS EASY,
AS WE OFFER:

- More than 5,000 cable and associated cable accessory products in stock for immediate despatch across Australia
- Access to the complete LAPP globally stocked product portfolio of 25,000 product lines, delivered within 2 weeks
- Local cutting service to cut cable to required lengths with no cutting charges for Australian stocked cables
- Local technical engineering personnel and expertise for customer application advice and support
- A fully transactional and content rich eShop



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



ÖLFLEX®
Power and control cables

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



UNITRONIC®
Data communication systems

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



ETHERLINE®
Data communication systems for ETHERNET technology

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



HITRONIC®
Optical transmission systems

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



EPIC®
Industrial connectors

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



SKINTOP®
Cable glands

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



SILVYN®
Protective cable conduit systems and cable carrier systems

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



FLEXIMARK®
Marking systems

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

CENTRE FOR COMPETENCE & QUALITY TESTING

The LAPP Group's Centre 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.

INDEPENDENTLY TESTED OUR INTERNATIONAL QUALITY CERTIFICATE

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



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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THE WORLD'S ORIGINAL CONTROL CABLE

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

LAPP's ÖLFLEX® range is ideally suited to heating and cooling systems, wind power, buildings, medical technology, food and beverage, construction, vehicles and mobile equipment.

LAPP offers an extensive range of ÖLFLEX® cables which includes flexible control, continuous flex, torsional, servo, high temperature, and field bus cables, all designed to withstand the rigours of the most demanding applications.

V-90HT APPLIANCE WIRE

TINNED CONDUCTORS WITH 1000V RATING



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

Temperature Rating
» -20°C to 105°C

Nominal Voltage
» 600/1000V

Test Voltage
» 3000V

Conductor	0.5mm ²	0.75mm ²	1mm ²	1.5mm ²	2.5mm ²	4mm ²	6mm ²	10mm ²	16mm ²
Cable OD	2.55mm	2.75mm	2.95mm	3.25mm	3.7mm	4.3mm	4.9mm	6.5mm	8.4mm
Green / Yellow	3801000	3801010	3801020	3801030	3801040	3801050A	3801060A	3801070	3801522
Black	3801001	3801011	3801021	3801031	3801041	3801051A	3801061A	3801071	3801081
Light Blue	3801002	3801012	3801022	3801032	3801042	3801052A	3801062A	3801072	3801082
Red	3801004	3801014	3801024	3801034	3801044	3801054A	3801064A	3801074	3801084
White	3801005	3801015	3801025	3801035	3801045	3801055A	3801065A	3801075	3801085
Blue	38010014	38010114	38010214	38010314	38010414	38010514A	38010614A		
Brown	3801003	3801013	3801023	3801033	3801043	3801053A	3801063A		3801083
Grey	3801006	3801016	3801026	3801036	3801046	3801056A			
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 BUILDING WIRE

Conductor cross-sectional area	Unenclosed						Enclosed		Single Phase Voltage Drop
	Spaced		Spaced from surface		Touching		Conduit in air		
mm ²	A	A	A	A	A	A	A	A	mV/A/m
1	16	16	16	14	13	13	13	11	54.0
1.5	21	20	21	17	16	16	16	14	34.6
2.5	30	29	29	25	23	23	22	20	18.9
4	40	38	39	33	31	31	30	26	11.7
6	51	49	49	42	40	40	38	34	7.86
10	69	67	67	58	54	54	53	47	4.67
16	92	89	89	77	72	72	71	62	2.94

These ratings are based on an ambient air temperature of 40° C, and an ambient soil temperature of 15° C at 0.5m depth.

ACCESSORIES LUGS

LUGS FOR SINGLE CORE TERMINATION



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



LAPP

APPLIANCE WIRE

LSZH TINNED APPLIANCE WIRE 110 DEGREE

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



Construction

Flexible tinned copper wire stranding class 5 (0,5-10mm²), or class 6 (16 and more) according to IEC 60228 and AS/NZS 1125.

Insulation

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

Applications

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

Nominal Voltage

» 600/1000V

Test Voltage

» 3000V

Temperature Rating

» 110°C

Standards

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

Conductor	0.5mm ²	0.75mm ²	1mm ²	1.5mm ²	2.5mm ²	4mm ²	6mm ²	10mm ²	16mm ²
Cable OD	2.3mm	2.5mm	2.6mm	2.9mm	3.4mm	3.9mm	4.4mm	5.4mm	6.4mm
Earth	3801000-LSZH	3801010-LSZH	3801020-LSZH	3801030-LSZH	3801040-LSZH	3801050-LSZH	3801060-LSZH	3806200	3806201
Black	3801001-LSZH	3801011-LSZH	3801021-LSZH	3801031-LSZH	3801041-LSZH	3801051-LSZH	3801061-LSZH	3801071-LSZH	3801081-LSZH
Red	3801004-LSZH	3801014-LSZH	3801024-LSZH	3801034-LSZH	3801044-LSZH	3801054-LSZH	3801064-LSZH	3801074-LSZH	3801084-LSZH
White	3801005-LSZH	3801015-LSZH	3801025-LSZH	3801035-LSZH	3801045-LSZH	3801055-LSZH	3801065-LSZH	3801075-LSZH	3801085-LSZH
Blue	3801002-LSZH	3801012-LSZH	3801022-LSZH	3801032-LSZH	3801042-LSZH	3801052-LSZH	3801062-LSZH	3801072-LSZH	3801082-LSZH
Brown	3801003-LSZH	3801013-LSZH	3801023-LSZH	3801033-LSZH	3801043-LSZH				
Grey	3801006-LSZH	3801016-LSZH	3801026-LSZH	3801036-LSZH	3801046-LSZH				
Orange	3801009-LSZH	3801019-LSZH	3801029-LSZH	3801039-LSZH					
Violet	3801007-LSZH	3801017-LSZH	3801027-LSZH	3801037-LSZH					
Pink	3801008-LSZH	3801018-LSZH	3801028-LSZH	3801038-LSZH					
Yellow	38010011-LSZH	38010111-LSZH	38010211-LSZH	38010311-LSZH					

CURRENT RATINGS FOR 110 APPLIANCE WIRE

Conductor cross-sectional area	Unenclosed						Enclosed	
	Spaced		Spaced from surface		Touching		Conduit in air	
mm ²	Cu	Cu	Cu	Cu	Cu	Cu	Cu	Cu
1	25	24	24	21	20	20	20	17
1.5	32	31	31	27	25	25	25	22
2.5	45	43	44	38	36	36	35	32
4	59	57	58	50	47	47	46	41
6	75	73	73	63	59	59	58	51
10	105	99	99	86	81	81	78	71
16	135	130	130	115	105	105	105	93

These ratings are based on 40°C ambient air temperature and 25°C ambient soil temperature.



SDI R-E-110 LSZH - TINNED SWITCHBOARD FLEX

HIGHLY FLEXIBLE RUBBER POWER CABLE



CONSTRUCTION

Conductors

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

Insulation

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

Outer Sheath

- » Orange: E-110-R (Flexible Rubber)

Colour Of Outer Sheath

- » Orange or Green/Yellow
- » UV Resistant

Application

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

FEATURES, RATINGS & APPROVALS

Temperature Range

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

Voltage Rating

- » 600/1000V

Features

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

Standards

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

Minimum Bending Radius

- » 5 x cable OD

Item No.	Conductor	Cable OD
Orange Power		
LAPP-3806141	10mm	9.0mm
LAPP-3806142	16mm	10.3mm
LAPP-3806143	25mm	11.9mm
LAPP-3806144	35mm	13.3mm
LAPP-3806145	50mm	15.0mm
LAPP-3806146	70mm	17.1mm
LAPP-3806147	95mm	19.5mm
LAPP-3806148	120mm	21.5mm
LAPP-3806149	150mm	23.9mm
LAPP-3806150	185mm	26.5mm
LAPP-3806151	240mm	29.3mm
LAPP-3806152	300mm	32.4mm
Earth - Green/Yellow		
LAPP-3806200	10mm	6.5mm
LAPP-3806201	16mm	7.0mm
LAPP-3806202	25mm	8.0mm
LAPP-3806203	35mm	9.0mm
LAPP-3806204	50mm	11.0mm
LAPP-3806205	70mm	13.0mm
LAPP-3806206	95mm	15.0mm
LAPP-3806207	120mm	16.0mm

CURRENT RATINGS BASED ON AS/NZS 3008.1.1 TABLES 6 & 9

Conductor	Unenclosed						Enclosed		Underground			
	Spaced	Spaced	Spaced from Surface	Spaced from Surface	Touching	Touching	Exposed to sunlight	Exposed to sunlight	In Conduit in air	In Conduit in air	Buried in Conduit	Buried in Conduit
mm ²	2	3	2	3	2	3	2	3	77	70	86	76
10	102	99	98	85	80	80	67	67	102	91	112	97
16	135	130	129	112	105	105	88	88	133	121	143	125
25	178	173	170	149	139	139	116	116	167	148	176	151
35	221	214	210	184	172	172	143	143	207	190	215	188
50	279	270	263	233	218	217	179	179	263	234	266	229
70	351	340	329	292	273	273	224	224	312	277	312	268
95	422	410	395	353	329	329	269	269	364	331	359	316
120	500	487	466	418	390	390	318	317	426	378	414	357
150	577	562	536	482	450	450	366	365	481	438	464	404
185	660	644	611	553	516	516	418	417	538	538	548	481
240	794	775	732	665	621	620	500	499	612	612	631	542
300	916	895	841	766	716	714	575	572				



SDI CABLES

CABLE FERRULES

INSULATED FERRULES (SINGLE AND DOUBLE ENTRY)



WIRE TERMINATION



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
61801930	Blue	Single	50	20mm	50
61801950	Yellow	Single	70	20mm	25
XL Loose					
61802061	White	Single	0.5	8mm	500
61802063	Grey	Single	0.75	8mm	500
61802065	Red	Single	1	8mm	500
61802067	Black	Single	1.5	8mm	500
Strips					
61805170	White	Single	0.5	8mm	5x 100
61805180	Grey	Single	0.75	8mm	5x 100
61805190	Red	Single	1	8mm	5x 100
61805200	Black	Single	1.5	8mm	5x 100
61802052	White	Single	0.5	8mm	1x 3000
61802054	Grey	Single	0.75	8mm	1x 3000
61802056	Red	Single	1	8mm	1x 3000
61802058	Black	Single	1.5	8mm	1x 2500
61802060	Blue	Single	2.5	8mm	1x 1500
Double Wire					
61801999	White	Double	0.5	8mm	500
61802000	Grey	Double	0.75	8mm	500
61802010	Red	Double	1	8mm	500
61802020	Black	Double	1.5	8mm	500
61802030	Blue	Double	2.5	10mm	500
61802032	Grey	Double	4	12mm	100
61802033	Yellow	Double	6	14mm	100
61802034	Red	Double	10	14mm	100
Assorted Packs					
61802040	Single	30 x 0.25mm + 30 x 0.34mm + 30 x 0.5mm + 30 x 0.75mm + 30 x 1mm			
61802041	Single	50 x 0.5mm + 100 x 0.75mm + 100 x 1mm + 100 x 1.5mm + 50 x 2.5mm			
61802042	Single	40 x 4mm + 20 x 6mm + 20 x 10mm + 10 x 16mm			
61802046	Double	Double Ferrules : 50 x 0.75mm + 50 x 1mm + 50 x 1.5mm + 50 x 2.5mm			



FERRULE & STRIP TOOLS

QUALITY TOOLS FOR CRIMPING



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



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



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

H07RN-F RUBBER SERIES

HEAVY DUTY FLEX WITH COLOURED CORES



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°C to 60°C
» Fixed: -25°C to 60°C

Nominal Voltage

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

Part No.	Conductor Size	Description	Conductor Colours	OD
2 core (no earth)				
393807121	1.5mm	2 core	Blue, Brown	9.5mm
393807122	2.5mm	2 core	Blue, Brown	11.5mm
393807123	4mm	2 core	Blue, Brown	13mm
3 core (2 Core + Earth)				
393807140	1mm	2 Core + Earth	Blue, Brown, Green/Yellow	7.5mm
393807141	1.5mm	2 Core + Earth	Blue, Brown, Green/Yellow	10.5mm
393807142	2.5mm	2 Core + Earth	Blue, Brown, Green/Yellow	11.9mm
393807143	4mm	2 Core + Earth	Blue, Brown, Green/Yellow	13.9mm
393807144	6mm	2 Core + Earth	Blue, Brown, Green/Yellow	14.4mm
4 core (3 Core + Earth)				
393807161	1.5mm	3 Core + Earth	Brown, Black, Grey, Green/Yellow	11.3mm
393807162	2.5mm	3 Core + Earth	Brown, Black, Grey, Green/Yellow	13.4mm
393807163	4mm	3 Core + Earth	Brown, Black, Grey, Green/Yellow	15.4mm
393807164	6mm	3 Core + Earth	Brown, Black, Grey, Green/Yellow	17.3mm
5 core (4 Core + Earth)				
393807181	1.5mm	4 Core + Earth	Brown, Black, Grey, Blue, Green/Yellow	12.7mm
393807182	2.5mm	4 Core + Earth	Brown, Black, Grey, Blue, Green/Yellow	15.2mm
393807183	4mm	4 Core + Earth	Brown, Black, Grey, Blue, Green/Yellow	17.6mm
393807184	6mm	4 Core + Earth	Brown, Black, Grey, Blue, Green/Yellow	18.8mm
16001093 / 393807185	10mm	4 Core + Earth	Brown, Black, Grey, Blue, Green/Yellow	28mm
16001113 / 393807186	16mm	4 Core + Earth	Brown, Black, Grey, Blue, Green/Yellow	31.9mm
16001133 / 393807187	25mm	4 Core + Earth	Brown, Black, Grey, Blue, Green/Yellow	37.5mm
7 core (6 Core + Earth)				
1600152	2.5mm	6 Core + Earth	Black with White Numbers	19.3
12 core (11 Core + Earth)				
1600148	1.5mm	11 Core + Earth	Black with White Numbers	19.8



2 CORE (NO EARTH)



3 CORE (2 CORE + EARTH)



4 CORE (3 CORE + EARTH)



5 CORE (4 CORE + EARTH)

H05RN-F RUBBER SERIES

MEDIUM DUTY FLEX WITH COLOURED CORES



LAPP KABEL H05RN-F

Construction

Flexible Class 5 fine wire stranding, rubber type E14 inner insulation material and rubber type EM2 outer sheath, black

Minimum Bending Radius

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

Temperature Rating

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

Nominal Voltage

300/500V

Part No.	Cores	Conductor	Description	OD (mm)
0.75mm				
393808220	2	0.75mm	2 Core	7.4
393808230	3	0.75mm	2 Core + Earth	8.1
1mm				
393808221	2	1mm	2 Core	8

H07RN-F ENHANCED RUBBER SERIES

SUBMERSIBLE HALOGEN FREE UV RESISTANT HEAVY DUTY FLEX WITH COLOURED CORES



LAPP KABEL H07RN-F

Construction

Flexible Class 5 fine wire stranding, core insulation and outer sheath made of special rubber compound

Minimum Bending Radius

» Flexing: 6 x cable OD
» Fixed: 4 x cable OD

Temperature Rating

» Flexing: -40°C to 90°C
» Fixed: -50°C to 90°C

Nominal Voltage

» 450/750V

Part No.	Cores	Conductor	Description	OD (mm)
1.5mm				
4533029	3	1.5mm	2 Core + Earth	11.9
4533063	4	1.5mm	3 Core + Earth	13.1
2.5mm				
4533031	3	2.5mm	2 Core + Earth	14
4533065	4	2.5mm	3 Core + Earth	15.5
4533095	5	2.5mm	4 Core + Earth	17
4mm ≥				
4533067	4	4mm	3 Core + Earth	17.9
4533069	4	6mm	3 Core + Earth	20
4533073	4	16mm	3 Core + Earth	30.1

AS ORANGE CIRCULAR

POWER DISTRIBUTION CABLE FOR FIXED INSTALLATIONS



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

Core Identification

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°C to 90°C

Standards

» AS/NZS 5000.1
» AS/NZS 1660.5.6
» EESS Compliant

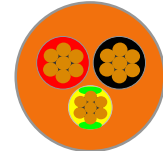
Rated Voltage

» 600/1000V

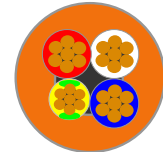
Core Identification

» 2 Core + E – Red, Black, Gn/Ye
» 3 Core + E – Red, White, Blue, Gn/Ye
» 4 Core + E – Red, White, Blue, Black, Gn/Ye

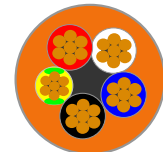
Part No.	Conductor Size	Earth Size	OD
3 CORE (2 Core + Earth)			
3801960	1.5mm	1.5mm	10.5mm
3801961	2.5mm	2.5mm	11.4mm
3801962	4mm	2.5mm	12.9mm
3801963	6mm	2.5mm	13.7mm
3801820	10mm	4mm	15.4mm
3801821	16mm	6mm	17.4mm
4 CORE (3 Core + Earth)			
3801964	1.5mm	1.5mm	11.3mm
3801965	2.5mm	2.5mm	12.4mm
3801966	4mm	2.5mm	14.2mm
3801967	6mm	2.5mm	15.3mm
5 CORE (4 Core + Earth)			
3801968	1.5mm	1.5mm	12.2mm
3801969	2.5mm	2.5mm	13.5mm
3801970	4mm	2.5mm	15.5mm
3801971	6mm	2.5mm	16.8mm
3801855	10mm	4mm	19.1mm
3801856	16mm	6mm	21.7mm
3801857	25mm	6mm	26.1mm
3801858	35mm	10mm	28.7mm



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					
mm ²	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



ÖLFLEX® 100 SERIES

MULTI-CORE FLEX WITH COLOURED CORES



LAPP KABEL STUIGART ÖLFLEX CLASSIC 100 CE



Construction

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

Minimum Bending Radius

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

Temperature Rating

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

Nominal Voltage

- » 300/500V (<1.5mm)
- » 450/750V (>=2.5mm)
- » 0.6/1kV (>=2.5 fixed & protected)

Part No.	Conductor Size	Conductor Colours	OD
2 Core (No Earth)			
00100004	0.5mm	Blue, Brown	4.8mm
00100214	0.75mm	Blue, Brown	5.4mm
00100414	1mm	Blue, Brown	5.7mm
00100634	1.5mm	Blue, Brown	6.3mm
0010086	2.5mm	Blue, Brown	8.9mm
3 Core (2 Core + Earth)			
00100004	0.5mm	Blue, Brown, Green/Yellow	5.1mm
00100224	0.75mm	Blue, Brown, Green/Yellow	5.7mm
00100424	1mm	Blue, Brown, Green/Yellow	6.0mm
00100644	1.5mm	Blue, Brown, Green/Yellow	6.7mm
0010087	2.5mm	Blue, Brown, Green/Yellow	9.6mm
4 Core (3Core + Earth)			
00100024	0.5mm	Blue, Brown, Grey, Green/Yellow	5.7mm
00100234	0.75mm	Blue, Brown, Grey, Green/Yellow	6.2mm
00100434	1mm	Blue, Brown, Grey, Green/Yellow	6.5mm
00100654	1.5mm	Blue, Brown, Grey, Green/Yellow	7.2mm
00100883	2.5mm	Blue, Brown, Grey, Green/Yellow	10.7mm
7 Core (6 Core + Earth)			
0010005	0.5mm	Blue, Brown, Grey, White, Black, Red, Green/Yellow	6.7mm
0010046	1mm	Blue, Brown, Grey, White, Black, Red, Green/Yellow	8mm
0010068	1.5mm	Blue, Brown, Grey, White, Black, Red, Green/Yellow	8.9mm
0010091	2.5mm	Blue, Brown, Grey, White, Black, Red, Green/Yellow	13.1mm
12 Core (11Core + Earth)			
0010008	0.5mm	Blue, Brown, Grey, White, Black, Red, Violet, Pink, Orange, Transparent, Beige, Green/Yellow	8.9mm



2 CORE



3 CORE (2 CORE + EARTH)



4 CORE (3 CORE + EARTH)



7 CORE (6 CORE + EARTH)



12 CORE (11 CORE + EARTH)

MULTICORE FLEX

LAPP



ÖLFLEX® 110 SERIES

MULTI-CORE FLEX WITH NUMBERED CORES



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°C to 70°C
- » Fixed: -40°C to 80°C

Nominal Voltage

- » 300/500V

With Earth

Grey	Black	Cores	OD
0.5mm			
1119003		2 C+E	4.8mm
1119004		3 C+E	5.7mm
1119005		4 C+E	6.2mm
1119007		6 C+E	6.7mm
1119010		9 C+E	8.6mm
1119012		11 C+E	8.9mm
1119018		17 C+E	10.5mm
1119021		20 C+E	11.7mm
1119025		24 C+E	12.4mm
1119030		29 C+E	13.3mm
1119035		34 C+E	14.5mm
1119040		39 C+E	15.4mm
1119065		64 C+E	19.6mm
0.75mm			
1119103		2 C+E	5.7mm
1119104		3 C+E	6.2mm
1119105		4 C+E	6.7mm
1119107		6 C+E	7.3mm
1119109		8 C+E	9.4mm
1119110		9 C+E	9.6mm
1119112		11 C+E	9.9mm
1119115		14 C+E	10.9mm
1119118		17 C+E	11.7mm
1119121		20 C+E	13mm
1119125		24 C+E	13.8mm
1119134		33 C+E	15.9mm
1119141		40 C+E	17.4mm
1119150		49 C+E	19.2mm
1mm			
1119203		2 C+E	6mm
1119204		3 C+E	6.5mm
1119205		4 C+E	7.1mm
1119206		5 C+E	8mm
1119207		6 C+E	8mm
1119209		8 C+E	10mm
1119210		9 C+E	10.2mm
1119212		11 C+E	10.5mm
1119214		13 C+E	11.2mm
1119218		17 C+E	12.7mm
1119220		19 C+E	13.4mm
1119225		24 C+E	14.7mm
1119234		33 C+E	17.1mm
1119236		35 C+E	17.4mm
1119241		40 C+E	18.8mm
1119250		49 C+E	20.6mm

Grey	Black	Cores	OD
1.5mm			
1119303		2 C+E	6.7mm
1119304		3 C+E	7.2mm
1119305		4 C+E	8.1mm
1119307		6 C+E	8.9mm
1119309		8 C+E	11.4mm
1119310		9 C+E	11.4mm
1119312		11 C+E	12mm
1119314		13 C+E	12.7mm
1119318		17 C+E	14.4mm
1119321		20 C+E	15.7mm
1119325		24 C+E	16.9mm
1119334		33 C+E	19.4mm
1119341		40 C+E	21.3mm
1119350		49 C+E	23.5mm
1119365		64 C+E	26.7mm
2.5mm			
1119403		2 C+E	8.1mm
1119404		3 C+E	8.9mm
1119405		4 C+E	10mm
1119407		6 C+E	11.1mm
1119412		11 C+E	14.8mm
1119418		17 C+E	17.8mm
1119425		24 C+E	20.8mm
4mm			
1119503		2 C+E	9.9mm
1119504		3 C+E	10.8mm
1119505		4 C+E	12.1mm
1119507		6 C+E	13.4mm
6mm			
1119603		2 C+E	11.7mm
1119604		3 C+E	13mm
1119605		4 C+E	14.5mm
10mm			
1119613		2 C+E	14.6mm
1119615		4 C+E	18.1mm
16mm			
1119264		3 C+E	18.8mm
25mm			
1119634		3 C+E	23.5mm

No Earth

Grey	Black	Cores	OD
0.5mm			
1119752		2C	4.8mm
1119753		3C	5.1mm
1119754		4C	5.7mm
1119755		5C	6.2mm
0.75mm			
1119802		2C	5.4mm
1119803		3C	5.7mm
1119804		4C	6.2mm
1119805		5C	6.7mm
1119807		7C	7.3mm

Grey	Black	Cores	OD
1119812		12C	9.9mm
1mm			
1119852		2C	5.7mm
1119853		3C	6mm
1119854		4C	6.5mm
1119855		5C	7.1mm
1119857		7C	8mm
1119862		12C	10.5mm
1.5mm			
1119902		2C	6.3mm
1119903		3C	6.7mm
1119904		4C	7.2mm
2.5mm			
1119952		2C	7.5mm

ÖLFLEX® 110 CY SERIES

EMC SCREENED FLEXIBLE POWER CABLES WITH NUMBERED CORES



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°C to 70°C
» Fixed: -40°C to 80°C

Nominal Voltage

» 300/500V
» Test Voltage
» 4000V

Part No.	Cores	Type	OD	Suitable Gland
0.5mm Conductor				
1135752	2	2 core - no earth	7mm	M16
1135003	3	2 Core + Earth	7.3mm	M16
1135004	4	3 Core + Earth	7.9mm	M16
1135005	5	4 Core + Earth	8.4mm	M20
1135007	7	6 Core + Earth	8.9mm	M20
1135012	12	11 Core + Earth	11.3mm	M20
1135018	18	17 Core + Earth	13.3mm	M25/M32
1135025	25	24 Core + Earth	15.2mm	M25/M32
0.75mm Conductor				
1135802	2	2 core - no earth	7.4mm	M16
1135103	3	2 Core + Earth	7.9mm	M16
1135104	4	3 Core + Earth	8.4mm	M20
1135105	5	4 Core + Earth	8.9mm	M20
1135107	7	6 Core + Earth	9.7mm	M20
1135112	12	11 Core + Earth	12.3mm	M25
1135118	18	17 Core + Earth	14.5mm	M25
1135125	25	24 Core + Earth	16.6mm	M25/M32
1mm Conductor				
1135852	2	2 Core + Earth	7.9mm	M16
1135203	3	2 Core + Earth	8.2mm	M16
1135204	4	3 Core + Earth	8.7mm	M20
1135205	5	4 Core + Earth	9.5mm	M20
1135207	7	6 Core + Earth	10.2mm	M20
1135212	12	11 Core + Earth	13.3mm	M25
1135218	18	17 Core + Earth	15.5mm	M25/M32
1135225	25	24 Core + Earth	17.5mm	M32

Part No.	Cores	Type	OD	Suitable Gland
1.5mm Conductor				
1135902	2	2 core - no earth	8.5mm	M16
1135303	3	2 Core + Earth	8.9mm	M20
1135304	4	3 Core + Earth	9.6mm	M20
1135305	5	4 Core + Earth	10.3mm	M20
1135307	7	6 Core + Earth	11.3mm	M20
1135312	12	11 Core + Earth	14.8mm	M25
1135318	18	17 Core + Earth	17.2mm	M32
1135325	25	24 Core + Earth	20.1mm	M32
1135334	34	33 Core + Earth	28.8mm	M40
2.5mm Conductor				
1135402	2	2 Core + Earth	9.9mm	M20
1135403	3	2 Core + Earth	10.3mm	M20
1135404	4	3 Core + Earth	11.3mm	M20
1135405	5	4 Core + Earth	12.6mm	M25
1135407	7	6 Core + Earth	13.9mm	M25
4mm Conductor				
1135504	4	3 Core + Earth	13.4mm	M25
6mm Conductor				
1135604	4	3 Core + Earth	15.8mm	M25/M32

ÖLFLEX® CLASSIC 115 CY BK

SCREENED PVC CONTROL CABLE WITH SMALL OUTER DIAMETER AND BLACK OUTER SHEATH



Construction

» Conductor made of fine bare copper wires
» Core insulation: PVC twisted in layers
» Outer sheath: PVC
» Tinned-copper braiding
» Plastic foil wrapping

Minimum Bending Radius

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

Temperature Rating

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

Nominal Voltage

» U0/U: 300/500 V
» UL: 600 V

Test Voltage

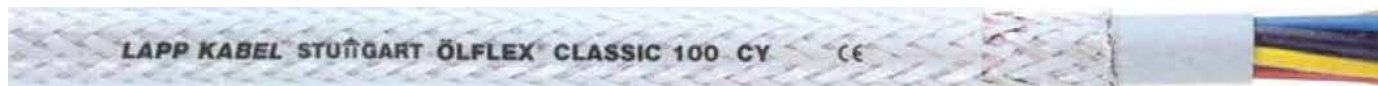
» Core/Core: 4000 V
» Core/Screen: 2000 V

Part No.	Cores	Description	OD	Suitable Gland
0.5mm				
1136510	2	2 Core (no earth)	5.8	M12
1136511	3	2 Core + Earth	6.1	M12
1136513	4	3 Core + Earth	6.5	M12
1136515	5	4 Core + Earth	7	M16
0.75mm				
1136110	3	2 Core + Earth	6.5	M12
1136111	4	3 Core + Earth	7	M16
1136113	5	4 Core + Earth	7.7	M16
1136114	7	6 Core + Earth	8.3	M16
1136115	12	11 Core + Earth	10.9	M20
1136533	18	17 Core + Earth	12.7	M20
1mm				
1136536	3	2 Core + Earth	6.8	M12
1136538	4	3 Core + Earth	7.3	M16
1136540	5	4 Core + Earth	8.1	M16
1136542	7	6 Core + Earth	8.8	M16
1136544	12	11 Core + Earth	11.5	M20

Part No.	Cores	Description	OD	Suitable Gland
1.5mm				
1136548	3	2 Core + Earth	7.5	M16
1136550	4	3 Core + Earth	8.2	M16
1136552	5	4 Core + Earth	8.9	M16
1136554	7	6 Core + Earth	9.9	M20
2.5mm				
1136560	3	2 Core + Earth	8.9	M16
1136561	4	3 Core + Earth	9.9	M20
1136563	7	6 Core + Earth	11.9	M20
4mm				
1136566	4	3 Core + Earth	11.8	M20
6mm				
1136567	4	3 Core + Earth	14.2	M25

ÖLFLEX® CLASSIC 100 CY SERIES

EMC CLEAR SCREENED FLEXIBLE POWER CABLE WITH COLOURED CORES



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°C to 70°C
» Fixed: -40°C to 80°C

Nominal Voltage

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

Part No.	Conductor	OD	Suitable Gland
3G (2 Core + Earth)			
0035458	1.5mm	9.9mm	M20 EMC
0035011	2.5mm	11.8mm	M20 EMC
4G (3 Core + Earth) Brown, Black, Grey, Green/Yellow			
00352223	1.0mm	8.7mm	M20 EMC
00354593	1.5mm	11.3mm	M20 EMC
00350173	2.5mm	13.5mm	M25 EMC
00350183	4mm	15.1mm	M25/M32 EMC
00350193	6mm	16.6mm	M32 EMC
00350213	10mm	21.1mm	M40 EMC
00350223	16mm	23.9mm	M40 EMC



3G (2G+E)



4G (3G+E)

ULTRA SCREEN VSD BLACK

DOUBLE EMC SCREENED CABLE WITH 100% SCREEN COVERAGE



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 Colours

Red, White, Blue, Green/Yellow

Sheath Colour

Black

FEATURES, RATINGS & APPROVALS

Rated Voltage

0.6/1 kV

Temperature Range

Enhanced: -20°C to 90°C

Test Voltage

4 kV

Flame Retardant

In acc. to IEC 60332-1-2

Min. Bending Radius

4 x cable diameter (fixed installation)

Part No.	Conductor	OD (mm)	Suitable Gland
Single Earth			
3804245A	4G 1.5mm	13.3	M25 EMC
3804246A	4G 2.5mm	14	M25 EMC
3804247A	4G 4mm	16.5	M32 EMC
Split Earth			
3804269A	3x6 + 3G x 1.5mm	17	M32 EMC
3804261A	3x10 + 3G x 1.5mm	19	M32 EMC
3804270A	3x16 + 3G x 2.5mm	22	M40 EMC
3804263A	3x25 + 3G x 4mm	25.5	M40 EMC
3804264A	3x35 + 3G x 6mm	29	M50 EMC
3804265A	3x50 + 3G x 10mm	36	M63 EMC



SINGLE EARTH



SPLIT EARTH

ÖLFLEX® SERVO 2YSLCYK-JB

DOUBLE EMC SCREENED 3+3 CORE VERSION WITH BLACK OUTER SHEATH



Construction

» Fine-wire, bare copper conductor
» Core insulation: PE
» Outer sheath: PVC black - cold flexible
» Symmetrical 3+3 core version
» Screening: wrapping of laminated aluminium foil in combination with tinned copper braiding

Minimum Bending Radius

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

Temperature Rating

» Flexing: -15°C to 70°C

Nominal Voltage

» U0/U: 600/1000 V

Test Voltage

C/C: 4000 V
C/S: 4000 V

Part No.	Conductor	OD (mm)	Suitable Gland
0036448	3x70 + 3G10mm	36.4	M63 Brush
0036449	3x95 + 3G16mm	42	M63 Brush
0036450	3x120 + 3G16mm	47.8	M63 Plus Brush



LAPP

SCREENED POWER

ÖLFLEX® 110 BLACK

POWER CABLE FOR VARIOUS APPLICATIONS 0.6/1KV



Construction

Fine-wire strand made of bare copper wires, PVC insulation LAPP P8/1, UV resistant PVC outer sheath, black (RAL 9005)

Minimum Bending Radius

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

Temperature Rating

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

Nominal Voltage

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

Part No.	Cores	Conductor	Description	OD (mm)
0.75mm				
1120235	4	0.75mm	3 Core + Earth	9.2
1120241	7	0.75mm	6 Core + Earth	10.7
1120248	12	0.75mm	11 Core + Earth	13.4
1120251	18	0.75mm	17 Core + Earth	15.4
1mm				
1120267	3	1mm	2 Core + Earth	9
1120269	4	1mm	3 Core + Earth	9.6
1120270	4	1mm	4 core (no earth)	9.6
1120271	5	1mm	4 Core + Earth	10.4
1120274	7	1mm	6 Core + Earth	11.1
1120280	12	1mm	11 Core + Earth	14
1120284	18	1mm	17 Core + Earth	16.1
1.5mm				
1120307	3	1.5mm	2 Core + Earth	10.1
1120309	4	1.5mm	3 Core + Earth	10.8
1120311	5	1.5mm	4 Core + Earth	11.7

Part No.	Cores	Conductor	Description	OD (mm)
1.5mm				
1120314	7	1.5mm	6 Core + Earth	12.6
1120320	12	1.5mm	11 Core + Earth	16.1
1120324	18	1.5mm	17 Core + Earth	18.8
1120328	25	1.5mm	24 Core + Earth	21.7
2.5mm				
1120340	3	2.5mm	2 Core + Earth	11.3
1120342	4	2.5mm	3 Core + Earth	12.2
1120344	5	2.5mm	4 Core + Earth	13.3
1120346	7	2.5mm	6 Core + Earth	14.4
1120349	12	2.5mm	11 Core + Earth	18.7
4mm				
1120360	4	4mm	3 Core + Earth	13.8
1120361	5	4mm	4 Core + Earth	15.1
6mm				
1120366	4	6mm	3 Core + Earth	15.1
1120367	5	6mm	4 Core + Earth	16.8
10mm				
1120370	4	10mm	3 Core + Earth	18.7
16mm				
1120374	4	16mm	3 Core + Earth	21.3

ÖLFLEX® 110 CY BLACK (EMC/SCREENED)

UV RESISTANT SCREENED POWER CABLE WITH NUMBERED CORES 0.6/1KV



Construction

Fine-wire strand made of bare copper wires, PVC insulation LAPP P8/1, UV resistant PVC inner sheath, black, Tinned-copper braiding, PVC outer sheath, black (RAL 9005)

Minimum Bending Radius

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

Temperature Rating

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

Nominal Voltage

» U0/U: 600/1000 V

Test Voltage

» 4000 V

Part No.	Cores	Conductor	Description	OD (mm)
0.75mm				
1121232	2	0.75mm	2 core (no earth)	10.5
1mm				
1121267	3	1mm	2 Core + Earth	11.2
1121269	4	1mm	3 Core + Earth	11.8
1121271	5	1mm	4 Core + Earth	12.6
1121274	7	1mm	6 Core + Earth	13.3
1121280	12	1mm	11 Core + Earth	16.4
1121284	18	1mm	17 Core + Earth	18.7
1121290	25	1mm	24 Core + Earth	21.6
1.5mm				
1121306	2	1.5mm	2 core (no earth)	11.8
1121307	3	1.5mm	2 Core + Earth	12.3
1121309	4	1.5mm	3 Core + Earth	13
1121311	5	1.5mm	4 Core + Earth	13.9
1121314	7	1.5mm	6 Core + Earth	15

Part No.	Cores	Conductor	Description	OD (mm)
1.5mm				
1121320	12	1.5mm	11 Core + Earth	18.7
1121324	18	1.5mm	17 Core + Earth	21.8
1121328	25	1.5mm	24 Core + Earth	25.1
2.5mm				
1121340	3	2.5mm	2 Core + Earth	13.5
1121342	4	2.5mm	3 Core + Earth	14.6
1121344	5	2.5mm	4 Core + Earth	15.7
1121346	7	2.5mm	6 Core + Earth	17
1121349	12	2.5mm	11 Core + Earth	21.7
4mm				
1121360	4	4mm	3 Core + Earth	16.2
1121361	5	4mm	4 Core + Earth	17.7
6mm				
1121367	4	6mm	3 Core + Earth	17.7
1121368	5	6mm	4 Core + Earth	19.2



Construction

Fine-wire strand made of bare copper wires, PVC insulation lapp p8/1, Cores twisted in layers

Minimum Bending Radius

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

Temperature Rating

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

Nominal Voltage

» U0/U: 300/500 V

Test Voltage

» CORE/CORE: 3000 V

Part No.	Cores	Conductor	Description	OD (mm)
0.75mm Conductor				
0012420	2	0.75mm	2 core - no earth	5.4
0012430	4	0.75mm	4 core - no earth	6.2
0012423	7	0.75mm	7 core - no earth	7.3
0012425	12	0.75mm	12 core - no earth	9.9
0012427	18	0.75mm	18 core - no earth	11.7
1.5mm Conductor				
0012501	3	1.5mm	2 Core + Earth	6.7
0012502	4	1.5mm	3 Core + Earth	7.2
0012504	7	1.5mm	6 Core + Earth	9.2
0012505	12	1.5mm	11 Core + Earth	12

ÖLFLEX® EB CY (EMC/SCREENED)

CONTROL CABLE FOR INTRINSICALLY SAFE CIRCUITS



Construction

Fine-wire strand made of bare copper wires, PVC insulation LAPP P8/1, Cores twisted in layers, Plastic foil wrapping, Tinned-copper braiding, Outer sheath: PVC, sky blue similar to RAL 5015.

Minimum Bending Radius

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

Temperature Rating

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

Nominal Voltage

» U0/U: 300/500 V

Test Voltage

» CORE/SCREEN: 2000 V

Part No.	Cores	Conductor	Description	OD (mm)
0.75mm Conductor				
0012640	2	0.75mm	2 core - no earth + screen	6.2
0012641	3	0.75mm	3 core - no earth + screen	6.5
0012642	4	0.75mm	4 core - no earth + screen	7
0012644	7	0.75mm	7 core - no earth + screen	8.3
0012645	12	0.75mm	12 core - no earth + screen	10.9
0012646	18	0.75mm	18 core - no earth + screen	12.7
1.5mm Conductor				
0012660	2	1.5mm	2 core - no earth + screen	7.1
0012661	3	1.5mm	3 core - no earth + screen	7.5
0012662	5	1.5mm	5 core - no earth + screen	8.9
0012663	7	1.5mm	7 core - no earth + screen	9.9
0012664	12	1.5mm	12 core - no earth + screen	13

ÖLFLEX® CLASSIC 110 SY

STEEL WIRE BRAIDING FOR EXTRA PROTECTION, FLEXIBLE CONTROL CABLE FOR VARIOUS APPLICATIONS



Construction

Fine wire strand made of bare copper wires, braid of galvanised steel wires, Core insulation: PVC, Cores twisted in layers, PUR outer sheath, transparent.

Minimum Bending Radius

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

Temperature Rating

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

Nominal Voltage

» U0/U: 300/500 V

Part No.	Cores	Conductor	Description	OD (mm)
1125203	3	1mm	2 Core + Earth	8.8
1125204	4	1mm	3 Core + Earth	9.5

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 Australia 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 at lappastralia.com.au.



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 (UL)

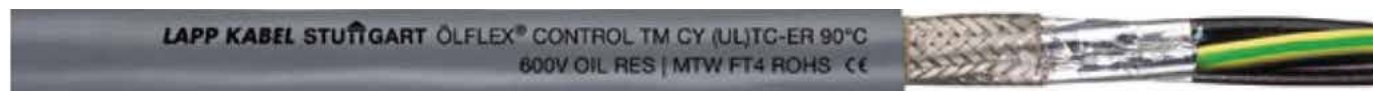
APPLIANCE WIRE WITH UL APPROVALS - 1000V



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 (UL)

EMC SCREENED FLEX FOR DRIVES



Part No.	Cores	Conductor	Description	OD (mm)
3G (2 Core + Earth)				
281803CY	3	1mm	2 Core + Earth	8.1
281603CY	3	1.5mm	2 Core + Earth	8.8
281403CY	3	2.5mm	2 Core + Earth	9.7
4G (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
7G (6 Core + Earth)				
281807CY	7	1mm	6 Core + Earth	10
281607CY	7	1.5mm	6 Core + Earth	11.1
281407CY	7	2.5mm	6 Core + Earth	12.4

ÖLFLEX® UL - 150 SERIES

MULTICORE FLEX WITH SMALL CONDUCTORS



Part No.	Cores	Conductor	Description	OD (mm)
0.5mm / 22 AWG Conductors				
0015002	2	0.5mm	2 core (no earth)	5.9
0015003	3	0.5mm	2 Core + Earth	6.2
0015004	4	0.5mm	3 Core + Earth	6.8
0015005	5	0.5mm	4 Core + Earth	7.4
0015007	7	0.5mm	6 Core + Earth	9.1
0015012	12	0.5mm	11 Core + Earth	11.1
0015018	18	0.5mm	17 Core + Earth	13.2
0015025	25	0.5mm	24 Core + Earth	16
0.75mm / 20 AWG Conductors				
0015102	2	0.75mm	2 core (no earth)	6.3
0015103	3	0.75mm	2 Core + Earth	6.7
0015104	4	0.75mm	3 Core + Earth	7.2
0015105	5	0.75mm	4 Core + Earth	8.1
0015107	7	0.75mm	6 Core + Earth	9.9
0015112	12	0.75mm	11 Core + Earth	12
0015118	18	0.75mm	17 Core + Earth	14.4
0015125	25	0.75mm	24 Core + Earth	17.5
1mm / 18 AWG Conductors				
0015202	2	1mm	2 core (no earth)	6.6
0015203	3	1mm	2 Core + Earth	7
0015204	4	1mm	3 core (no earth)	7.8
0015205	5	1mm	4 Core + Earth	8.6
0015207	7	1mm	6 Core + Earth	10.4
0015212	12	1mm	11 Core + Earth	12.8
2.5mm / 14 AWG Conductors				
0015402	2	2.5mm	2 core (no earth)	9.2
0015403	3	2.5mm	2 Core + Earth	9.9
0015404	4	2.5mm	3 Core + Earth	10.8
0015407	7	2.5mm	6 Core + Earth	14.7

ÖLFLEX® UL - CONTROL TM

MULTICORE FLEX WITH UL APPROVALS - 600V



Part No.	Cores	Conductor	Description	OD (mm)
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 (no earth)	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
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
281407	7	2.5mm	6 Core + Earth	11.6
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



ÖLFLEX® 128 H BK

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



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

Construction

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

Minimum Bending Radius

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

Core identification code:

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

Temperature Rating

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

Nominal Voltage

- » U0/U: 600/1000 V

Test Voltage

- » 4000 V

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

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

ÖLFLEX® 128 CH BK

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



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

Construction

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

Minimum Bending Radius

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

Core identification code:

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

Temperature Rating

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

Nominal Voltage

- » U0/U: 600/1000 V

Test Voltage

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

Part No.	Cores	Conductor	Description	OD (mm)
1mm				
1123557	2	1mm	2 core (no earth)	8.2
1123558	3	1mm	2 Core + Earth	8.6
1123559	4	1mm	3 Core + Earth	9.2
1123560	5	1mm	4 Core + Earth	10
1123561	7	1mm	6 Core + Earth	10.7
1123562	12	1mm	11 Core + Earth	14
1.5mm				
1123565	2	1.5mm	2 core (no earth)	9.2
1123566	3	1.5mm	2 Core + Earth	9.7
1123567	4	1.5mm	3 Core + Earth	10.4
1123568	5	1.5mm	4 Core + Earth	11.3
1123569	7	1.5mm	6 Core + Earth	12.2
1123570	12	1.5mm	11 Core + Earth	16.3

Part No.	Cores	Conductor	Description	OD (mm)
2.5mm				
1123574	3	2.5mm	2 Core + Earth	10.9
1123575	4	2.5mm	3 Core + Earth	11.8
1123576	5	2.5mm	4 Core + Earth	12.9
1123577	7	2.5mm	6 Core + Earth	14.4
4mm				
1123582	4	4mm	3 Core + Earth	13.5
1123583	5	4mm	4 Core + Earth	14.9
6mm				
1123585	4	6mm	3 Core + Earth	15.1

ÖLFLEX® CLASSIC 128 H BK SC

HALOGEN-FREE SINGLE CORE POWER CABLE WITH IMPROVED FIRE CHARACTERISTICS 0.6/1KV



LAPPKABEL STUTTGART ÖLFLEX® CLASSIC 128 H BK SC 1 X 16 CE

Construction

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

Minimum Bending Radius

- » Occasional flexing: 15 x outer diameter
- » Fixed installation: 4 x outer diameter

Temperature Rating

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

Nominal Voltage

- » U0/U: 600/1000 V

Test Voltage

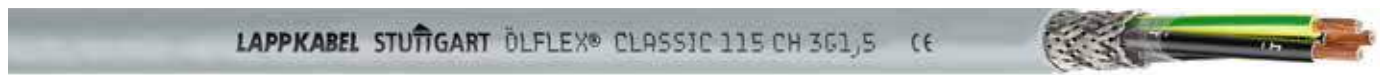
- » 4000 V

Part No.	Conductor	OD (mm)
0.5mm		
1123800	16mm	9.6
1123801	25mm	11.3
1123802	35mm	12.5
1123803	50mm	15.1

Part No.	Conductor	OD (mm)
0.5mm		
1123804	70mm	17
1123805	95mm	19.6
1123806	120mm	22.4

ÖLFLEX® CLASSIC 115 CH

SCREENED HALOGEN-FREE CONTROL CABLE, OIL RESISTANT VERY FLEXIBLE AND SPACE SAVINGS



Construction

- » Conductor made of fine bare copper wires
- » Core insulation: Halogen-free
- » Outer sheath: Special Halogen-free compoundm grey
- » Tinned-copper braiding
- » Wrapping: Halogen-free plastic foil

Minimum Bending Radius

- » Occasional Flexing: 15 x OD
- » Fixed installation: 6 x OD

Temperature Rating

- » Fixed installation: -40°C to +80°C
- » Occasional Flexing: -30°C to +70°C

Nominal Voltage

- » U0/U: 300/500 V
- » UL: 600 V

Test Voltage

- » 4000 V

Part No.	Cores	Description	OD (mm)	Part No.	Cores	Description	OD (mm)	Part No.	Cores	Description	OD (mm)
0.5mm				10036016	7	6 Core + Earth	8.5	10036033	3	2 Core + Earth	7.6
10036001	2	2 Core (no earth)	5.9	10036019	18	17 Core + Earth	13	10036035	4	3 Core + Earth	8.4
10036002	3	2 Core + Earth	6.2	1mm				10036036	5	4 Core + Earth	9.1
10036004	4	3 Core + Earth	6.6	10036021	2	2 Core (no earth)	6.6	10036037	7	6 Core + Earth	10
10036006	5	4 Core + Earth	7.1	10036022	3	2 Core + Earth	6.9	10036038	12	11 Core + Earth	13.4
10036007	7	6 Core + Earth	7.7	10036024	4	3 Core + Earth	7.4	2.5mm			
10036008	12	11 Core + Earth	10.1	10036027	7	6 Core + Earth	8.3	10036041	3	2 Core + Earth	9.1
0.75mm				10036028	12	11 Core + Earth	11.7	10036042	4	3 Core + Earth	10
10036010	3	2 Core + Earth	6.6	10036029	18	17 Core + Earth	14.1	10036044	7	6 Core + Earth	12
10036012	4	3 Core + Earth	7.1	1.5mm				4mm			
10036014	5	4 Core + Earth	7.9	10036032	2	2 Core (no earth)	7.2	10036046	4	3 Core + Earth	11.8

ÖLFLEX® CLASSIC 130 H

HALOGEN-FREE CONTROL CABLE WITH IMPROVED FIRE CHARACTERISTICS



Construction

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

Minimum Bending Radius

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

Temperature Rating

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

Nominal Voltage

- » U0/U: 600/1000 V

Test Voltage

- » 4000 V

Part No.	Cores	Conductor	Description	OD (mm)	Part No.	Cores	Conductor	Description	OD (mm)
0.5mm					1123074	7	1mm	6 Core + Earth	8.1
1123000	2	0.5mm	2 core (no earth)	5.1	1123080	12	1mm	11 Core + Earth	10.7
1123001	3	0.5mm	2 Core + Earth	5.4	1.5mm				
1123003	4	0.5mm	3 Core + Earth	5.8	1123106	2	1.5mm	2 core (no earth)	6.4
1123008	7	0.5mm	6 Core + Earth	6.9	1123107	3	1.5mm	2 Core + Earth	6.8
1123013	12	0.5mm	11 Core + Earth	9.1	1123109	4	1.5mm	3 Core + Earth	7.4
0.75mm					1123111	5	1.5mm	4 Core + Earth	8.3
1123033	3	0.75mm	2 Core + Earth	5.8	1123114	7	1.5mm	6 Core + Earth	9
1123035	4	0.75mm	3 Core + Earth	6.3	1123118	10	1.5mm	9 Core + Earth	11.8
1123037	5	0.75mm	4 Core + Earth	6.9	1123120	12	1.5mm	11 Core + Earth	12.2
1123041	7	0.75mm	6 Core + Earth	7.5	2.5mm				
1123047	12	0.75mm	11 Core + Earth	10.1	1123140	3	2.5mm	2 Core + Earth	8.3
1mm					1123142	4	2.5mm	3 Core + Earth	9
1123066	2	1mm	2 core (no earth)	5.8	1123144	5	2.5mm	4 Core + Earth	10.1
1123067	3	1mm	2 Core + Earth	6.1	1123146	7	2.5mm	6 Core + Earth	11.2
1123069	4	1mm	3 Core + Earth	6.6	1123149	12	2.5mm	11 Core + Earth	15.1
1123071	5	1mm	4 Core + Earth	7.3					

ÖLFLEX® 135 CH

SCREENED HALOGEN-FREE CONTROL CABLE WITH IMPROVED FIRE CHARACTERISTICS



Construction

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

Minimum Bending Radius

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

Temperature Rating

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

Nominal Voltage

- » U0/U: 300/500 V

Test Voltage

- » 4000 V

Part No.	Cores	Conductor	Description	OD (mm)	Part No.	Cores	Conductor	Description	OD (mm)
1mm					1123309	4	1.5mm	3 Core + Earth	8.4
1123266	2	1mm	2 core (no earth)	6.6	1123311	5	1.5mm	4 Core + Earth	9.1
1123267	3	1mm	2 Core + Earth	6.9	1123314	7	1.5mm	6 Core + Earth	10
1123269	4	1mm	3 Core + Earth	7.4	1123320	12	1.5mm	11 Core + Earth	13.4
1123271	5	1mm	4 Core + Earth	8.3	2.5mm				
1123274	7	1mm	6 Core + Earth	8.9	1123339	2	2.5mm	2 core (no earth)	8.6
1123280	12	1mm	11 Core + Earth	11.7	1123340	3	2.5mm	2 Core + Earth	9.1
1123284	18	1mm	17 Core + Earth	14.1	1123342	4	2.5mm	3 Core + Earth	10
1.5mm					1123346	7	2.5mm	6 Core + Earth	12
1123307	3	1.5mm	2 Core + Earth	7.6					



ÖLFLEX® FD 810

HIGHLY FLEXIBLE CONTROL CABLE FOR INDOOR DRAG CHAIN APPLICATIONS



Construction

Super flexible Class 6 fine wire strand, PVC inner insulation material & grey PVC outer sheath.

Minimum Bending Radius

» 7.5 x cable OD
» 4 x cable OD

Temperature Rating

» Flexing: 0°C to +70°C
» Fixed installation: -40°C to +80°C

Nominal Voltage

» 300/500V

Part No.	Cores	Description	OD (mm)
0.5mm			
0026101	3	2 Core + Earth	6.2
0026103	4	4 Core + Earth	7.3
0026104	7	6 Core + Earth	8.5
0026105	12	11 Core + Earth	10
0026106	18	17 Core + Earth	12
0026107	25	24 Core + Earth	14.9
0.75mm			
0026120	3	2 Core + Earth	6.7
0026121	4	3 Core + Earth	7.3
0026123	7	6 Core + Earth	9.4
0026124	12	11 Core + Earth	11.2
0026126	18	17 Core + Earth	13.3

Part No.	Cores	Description	OD (mm)
1mm			
0026131	3	2 Core + Earth	7.1
0026132	4	3 Core + Earth	7.8
0026134	7	6 Core + Earth	10.1
0026135	12	11 Core + Earth	12
0026138	18	17 Core + Earth	14.5
1.5mm			
0026150	3	2 Core + Earth	7.9
0026151	4	3 Core + Earth	8.6
0026153	7	6 Core + Earth	11.5
0026154	12	11 Core + Earth	13.5
0026156	18	17 Core + Earth	16.3
0026157	25	24 Core + Earth	20
2.5mm			
0026171	4	3 Core + Earth	10.5

ÖLFLEX® FD 810 CY

HIGHLY FLEXIBLE SCREENED CONTROL CABLE FOR INDOOR DRAG CHAIN APPLICATIONS



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

» Flexing: 0°C to +70°C
» Fixed installation: -40°C to 80°C

Nominal Voltage

» 300/500V

Part No.	Cores	Conductor	Description	OD (mm)
0.5mm				
0026202	4	0.5mm	3 Core + Earth + Screen	7.9
0026204	7	0.5mm	6 Core + Earth + Screen	9.8
0026205	12	0.5mm	11 Core + Earth + Screen	11.3
1mm				
0026232	4	1mm	3 Core + Earth + Screen	8.9
0026234	7	1mm	6 Core + Earth + Screen	11.4
0026235	12	1mm	11 Core + Earth + Screen	13.4
1.5mm				
0026251	4	1.5mm	3 Core + Earth + Screen	9.9
0026253	7	1.5mm	6 Core + Earth + Screen	12.7
0026254	12	1.5mm	11 Core + Earth + Screen	15.1

ÖLFLEX® CLASSIC FD 810 P

HIGHLY FLEXIBLE CONTROL CABLE FOR HARSH DRAG CHAIN HARSH APPLICATIONS



Construction

Extra-fine wire strand made of bare copper wires (class 6), Core insulation: PVC, Cores twisted in short lay lengths, Non-woven wrapping, PUR outer sheath, grey (similar RAL 7001)

Minimum Bending Radius

» Flexing: up from 7.5 x OD
» Fixed installation: 4 x OD

Temperature Rating

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

Nominal Voltage

» U0/U: 300/500 V

Part No.	Cores	Conductor	Description	OD (mm)
0.5mm				
0026302	4	0.5mm	3 Core + Earth	6.3
0026304	7	0.5mm	6 Core + Earth	8
0026305	12	0.5mm	11 Core + Earth	9.5
0.75mm				
0026320	3	0.75mm	2 Core + Earth	6.2
0026321	4	0.75mm	3 Core + Earth	6.8
0026323	7	0.75mm	6 Core + Earth	8.9
0026324	12	0.75mm	11 Core + Earth	10.6
1mm				
0026331	3	1mm	2 Core + Earth	6.6
0026332	4	1mm	3 Core + Earth	7.3
0026334	7	1mm	6 Core + Earth	9.6
0026335	12	1mm	11 Core + Earth	11.4
0026338	18	1mm	17 Core + Earth	13.9

Part No.	Cores	Conductor	Description	OD (mm)
1.5mm				
0026350	3	1.5mm	3 Core + Earth	7.4
0026351	4	1.5mm	3 Core + Earth	8.1
0026353	7	1.5mm	6 Core + Earth	10.9
0026354	12	1.5mm	12 Core + Earth	12.9
0026356	18	1.5mm	18 Core + Earth	15.6
0026357	25	1.5mm	25 Core + Earth	18.6
2.5mm				
0026370	3	2.5mm	3 Core + Earth	9
0026371	4	2.5mm	4 Core + Earth	10
0026373	7	2.5mm	6 Core + Earth	13.6
0026374	12	2.5mm	11 Core + Earth	16
4mm				
0026381	4	4mm	3 Core + Earth	11.7

ÖLFLEX® CLASSIC FD 810 CP

HIGHLY FLEXIBLE SCREENED CONTROL CABLE FOR HARSH CONDITION DRAG CHAIN APPLICATIONS



Construction

Extra-fine wire strand made of bare copper wires (class 6), EMC copper screening. Core insulation: PVC, Cores twisted in short lay lengths, Nonwoven wrapping, PUR outer sheath, grey (similar RAL 7001)

Minimum Bending Radius

» Flexing: up from 7.5 x OD
» Fixed installation: 4 x OD

Temperature Rating

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

Nominal Voltage

» U0/U: 300/500 V

Part No.	Cores	Conductor	Description	OD (mm)
0.75mm				
0026421	4	0.75mm	3 Core + Earth	8.4
0026423	7	0.75mm	6 Core + Earth	10.7
0026424	12	0.75mm	11 Core + Earth	12.4
1mm				
0026431	3	1mm	2 Core + Earth	8.2
0026432	4	1mm	3 Core + Earth	8.9
0026434	7	1mm	6 Core + Earth	11.4
0026435	12	1mm	11 Core + Earth	13.4

Part No.	Cores	Conductor	Description	OD (mm)
1.5mm				
0026451	4	1.5mm	3 Core + Earth	9.9
0026453	7	1.5mm	6 Core + Earth	12.7
0026454	12	1.5mm	11 Core + Earth	15.1
0026456	18	1.5mm	17 Core + Earth	17.8
2.5mm				
0026471	4	2.5mm	3 Core + Earth	11.8
4mm				
0026481	4	4mm	3 Core + Earth	13.7

ÖLFLEX® ROBUST FD

HIGHLY FLEXIBLE HALOGEN-FREE POWER AND CONTROL CABLE FOR DRAG CHAIN APPLICATIONS IN HARSH ENVIRONMENTAL CONDITIONS



Construction

Extra-fine wire, tinned copper strands, Core insulation: TPE, Outer sheath: Robust made of special halogen-free TPE, Cores twisted together in extremely short lay lengths, Wrapping: non-woven

Minimum Bending Radius

» Up from 7.5 x OD (at temperatures < 70°C)
» Up from 10 x OD (at max temperature of 105°C)
» Fixed installation: 4 x OD

Temperature Rating

» Flexing: -40°C to +105°C
» Fixed installation: -50°C to +105°C

Nominal Voltage

» U0/U: 300/500 V
Test Voltage
» 4000 V

Part No.	Cores	Conductor	Description	OD (mm)
0.5mm				
0026536	2	0.5mm	2 Core (no earth)	6.1
0026539	5	0.5mm	4 Core + Earth	8
0026540	7	0.5mm	6 Core + Earth	9.6
0026544	12	0.5mm	11 Core + Earth	11.6
0.75mm				
0026547	2	0.75mm	2 Core (No Earth)	6.4
1mm				
0026508	2	1mm	2 Core (no earth)	6.8
0026509	3	1mm	2 Core + Earth	7.4
0026516	7	1mm	6 Core + Earth	11.1
0026518	18	1mm	17 Core + Earth	15.9

Part No.	Cores	Conductor	Description	OD (mm)
1.5mm				
0026548	2	1.5mm	2 Core (no earth)	8
0026522	4	1.5mm	3 Core + Earth	9.9
0026524	7	1.5mm	6 Core + Earth	13.4
0026525	12	1.5mm	11 Core + Earth	15.8
0026526	18	1.5mm	17 Core + Earth	18.9
2.5mm				
0026531	4	2.5mm	3 Core + Earth	11.8
0026533	7	2.5mm	6 Core + Earth	15.7
4mm				
0026541	4	4mm	3 Core + Earth	13.8

ÖLFLEX® SERVO 719 CY

SCREENED SERVO CABLE WITH PVC OUTER SHEATH FOR STATIC USE



LAPP KABEL STUÏTGART ÖLFLEX® SERVO 719 CY DESINA, CE



Construction

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

Minimum Bending Radius

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

Temperature Rating

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

Nominal Voltage

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

Part No.	Cores	Conductor	Description	Control Cores	OD (mm)
0.75mm					
1020024	4	0.75mm	3 Core + Earth	2x(2x0,34)	9.7
1.5mm					
1020025	4	1.5mm	3 Core + Earth	2x(2x0,75)	12.3
1020045	4	1.5mm	3 Core + Earth	2x1,0	10.8
1020019	4	1.5mm	3 Core + Earth	2x1,5	11.5

Part No.	Cores	Conductor	Description	Control Cores	OD (mm)
2.5mm					
1020026	4	2.5mm	3 Core + Earth	2x(2x1)	14.7
1020046	4	2.5mm	3 Core + Earth	2x1,0	12.1
1020054	4	2.5mm	3 Core + Earth	3x1,0	12.9
4mm					
1020021	4	1.5mm	3 Core + Earth	2x1,5	15
1020027	4	1.5mm	3 Core + Earth	2x1,0	16.4

ÖLFLEX® SERVO FD 796 CP

HIGHLY FLEXIBLE SCREENED SERVO CABLE FOR HARSH CONDITION DRAG CHAIN APPLICATIONS



LAPP KABEL STUÏTGART ÖLFLEX® SERVO FD 796 CP CE



Construction

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

Minimum Bending Radius

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

Temperature Rating

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

Nominal Voltage

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

Part No.	Cores	Conductor	Description	Control Cores	OD (mm)
1.5mm					
0027950	4	1.5mm	3 cores + earth	-	9.1
0027959	4	1.5mm	3 cores + earth	2 x 1.5mm	11.6
0027969	4	1.5mm	3 cores + earth	2 x(2x0.75mm)	12.2
2.5mm					
0027951	4	2.5mm	3 cores + earth	-	10.6
0027960	4	2.5mm	3 cores + earth	2 x 1.5mm	13.4
0027970	4	2.5mm	3 cores + earth	2 x(2x1mm)	14.6
4mm					
0027952	4	4mm	3 cores + earth	-	11.9
0027961	4	4mm	3 cores + earth	2 x 1.5mm	14.8
0027980	4	4mm	3 cores + earth	2x(2x1,0)	16.1

Part No.	Cores	Conductor	Description	Control Cores	OD (mm)
6mm					
0027962	4	6mm	3 cores + earth	2 x 1.5mm	16.8
0027972	4	6mm	3 cores + earth	(2x1)+(2x1,5)	18.1
10mm					
0027963	4	10mm	3 cores + earth	2 x 1.5mm	19.4
0027973	4	10mm	3 cores + earth	(2x1)+(2x1,5)	21.8
16mm					
0027955	4	16mm	3 cores + earth	-	21.6
0027964	4	16mm	3 cores + earth	2 x 1.5mm	23.1
0027974	4	16mm	3 cores + earth	2 x(2x1.5mm)	25.5

ÖLFLEX® SERVO FD 798 CP

HIGHLY FLEXIBLE SCREENED ENCODER CABLE FOR HARSH CONDITION DRAG CHAIN APPLICATIONS



LAPP KABEL STUÏTGART ÖLFLEX® SERVO FD 798 CP



Construction

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

Minimum Bending Radius

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

Temperature Rating

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

Nominal Voltage

- » IEC: 30V
- » UL & CSA: 30V

Part No.	Description	OD (mm)
0036911	3x2x0.14mm + 2x0.5mm	9.6
0036915	4x2x0.25mm + 2x1mm	8.8
0036916	6x2x0.25mm + 2x0.5mm	10.3
0036921	4x2x0.25mm	7.6
0036927	4x2x0.25mm + 2x0.5mm	8.5
0036930	2x2x0.25mm + 2x0.5mm	7.3

ÖLFLEX® ROBUST 200

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



Construction

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

Minimum Bending Radius

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

Temperature Rating

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

Nominal Voltage

» U0/U: 450/750 V

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

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

ÖLFLEX® ROBUST 210

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



Construction

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

Minimum Bending Radius

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

Temperature Rating

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

Nominal Voltage

» U0/U: 300/500 V

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

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

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

ÖLFLEX® ROBUST 215 C

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



Construction

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

Minimum Bending Radius

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

Temperature Rating

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

Nominal Voltage

» U0/U: 300/500 V

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

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

ÖLFLEX® CLASSIC 400 P

ABRASION AND OIL RESISTANT CONTROL CABLE WITH PUR SHEATH



LAPP KABEL STUTTGART ÖLFLEX® CLASSIC 400 P CE

Construction

Fine wire, bare copper conductors, Core insulation: special PP, Cores twisted in layers, Outer sheath made of special polyurethane (PUR), available in DESINA black outer sheath version.

Minimum Bending Radius

- » Flexing: 12.5 x OD
- » Fixed installation: 4 x OD

Temperature Rating

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

Nominal Voltage

- » U0/U: 300/500 V

Part No.	Cores	Description	OD (mm)
0.5mm			
1312003	3	2 Core + Earth	5.1
1312004	4	3 Core + Earth	5.7
1312005	5	4 Core + Earth	6.2
1312007	7	6 Core + Earth	6.7
1312010	10	9 Core + Earth	8.6
1312012	12	11 Core + Earth	8.9
0.75mm			
1312103	3	2 Core + Earth	5.7
1312104	4	3 Core + Earth	6.2
1312105	5	4 Core + Earth	6.7
1312107	7	6 Core + Earth	7.3
1312110	10	9 Core + Earth	9.6
1312112	12	11 Core + Earth	9.9
1312118	18	17 Core + Earth	11.7
1312125	25	24 Core + Earth	13.8

Part No.	Cores	Description	OD (mm)
1mm			
1312203	3	2 Core + Earth	6
1312204	4	3 Core + Earth	6.5
1312205	5	4 Core + Earth	7.1
1312207	7	6 Core + Earth	8
1312210	10	9 Core + Earth	10.2
1312212	12	11 Core + Earth	10.5
1312218	18	17 Core + Earth	12.7
1312225	25	24 Core + Earth	14.7
1312234	34	33 Core + Earth	17.1
1.5mm			
1312303	3	2 Core + Earth	6.7
1312304	4	3 Core + Earth	7.2
1312305	5	4 Core + Earth	8.1
1312307	7	6 Core + Earth	8.9
1312312	12	11 Core + Earth	12
1312325	25	24 Core + Earth	16.9

ÖLFLEX® CLASSIC 400 CP

ABRASION AND OIL RESISTANT SCREENED CONTROL CABLE WITH PUR SHEATH



LAPP KABEL STUTTGART ÖLFLEX® CLASSIC 400 CP CE

Construction

Fine wire, bare copper conductors, Core insulation: special PVC, Cores twisted in layers, Outer sheath made of special polyurethane (PUR)

Minimum Bending Radius

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

Temperature Rating

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

Nominal Voltage

- » U0/U: 300/500 V

Part No.	Cores	Conductor Size	OD (mm)
0.75mm			
1313104	4	3 Core + Earth	8.4
1313107	7	6 Core + Earth	9.7
1313112	12	11 Core + Earth	12.3
1mm			
1313204	4	3 Core + Earth	8.7
1313207	7	6 Core + Earth	10.2
1313212	12	11 Core + Earth	13.3

Part No.	Cores	Conductor Size	OD (mm)
1.5mm			
1313304	4	3 Core + Earth	9.6
1313307	7	6 Core + Earth	11.3
2.5mm			
1313404	4	3 Core + Earth	11.3

ÖLFLEX® 550 P

POWER CORD WITH PUR OUTER SHEATH AND EUROPEAN HARMONISATION (HAR)



H05BQ-F <HAR> CE

Application Range

- » Portable handheld electrical devices such as drills, sanders, jig saws or grinders
- » Building sites, camp sites, stage applications
- » Construction machinery
- » Agricultural equipment

Benefits

- » Harmonised use in Europe
- » Increased durability under harsh conditions
- » Resistant to contact with many chemical media
- » Wide temperature range

Approvals

- » Based on VDE 0285 EN 50525-2-21
- » H05BQ-F/H07BQ-F design standard

Features

- » Oil-resistant
- » Abrasion and notch-resistant
- » Flexible down to -40°C
- » Resistant to hydrolysis and microbes

Temperature Range

- » Occasional flexing: -40°C to +90°C
- » Fixed installation: -50°C to +90°C

Nominal Voltage

- » Up to 1.0 mm²: U0/U: 300/500 V
- » From 1.5 mm²: U0/U: 450/750 V

Part No.	Cores	Conductor Size	OD (mm)
1.5mm			
0013621	2 Core + Earth	1.5	10.4
00136223	3 Core + Earth	1.5	11.6
00136233	4 Core + Earth	1.5	12.7

ÖLFLEX® REELING & LIFTING CABLE

View the full range online at lappastralia.com.au/reeling-lifting-cable

ÖLFLEX® LIFT F

FLAT PBC CONTROL CABLE FOR CONVEYOR TECHNOLOGY/LIFT APPLICATIONS



LAPP KABEL STUÏTGART ÖLFLEX® LIFT F CE



Construction

- » Conductor made of bare copper wires
- » Core insulation: Based on PVC
- » Outer sheath: Based on PVC
- » Up to 5 cores: colour-coded
- » From 6 cores: black and white numbers

Minimum Bending Radius

- » Flexible use: 10 x cable thickness

Test Voltage

- » 3000 V

Temperature Rating

- Flexible use:
- » 0°C to +70°C (up to 1.0 mm²)
 - » -15°C to +70°C (up to 1.5 mm²)

Nominal Voltage

- » Up to 1.0 mm²: U0/U: 300/500 V
- » From 1.5 mm²: U0/U: 450/750 V

Part No.	Cores	OD width x height (mm)
1.5mm		
00420013	4	15.5 x 5.2
0042004	8	29 x 5.2
0042006	12	42 x 5.2
2.5mm		
00420073	4	19 x 5.9
0042010	8	35 x 5.9
0042050	12	52.5 x 5.9

Part No.	Cores	OD width x height (mm)
4mm		
1313104	4	21 x 6.8
6mm		
1313204	4	24 x 7.3
10mm		
1313304	4	30.5 x 9.5
16mm		
1313404	4	35 x 10.8
25mm		
1313404	4	42 x 13

ÖLFLEX® CRANE PUR

REELABLE POLYURETHANE CABLES FOR LOW, MEDIUM AND HIGH MECHANICAL STRESS



LAPP KABEL STUÏTGART ÖLFLEX® CRANE PUR CE



Construction

- » Conductor made of bare copper wires
- » Core insulation: TPE compound
- » Outer sheath: PUR compound, halogen-free
- » Central supporting element
- » Support braid integrated in the outer sheath
- » Up to 5 cores: colour-coded
- » From 6 cores: black and white numbers

Minimum Bending Radius

- » Flexible use: 7.5 x cable thickness

Test Voltage

- » 4000 V

Temperature Rating

- Flexible use:
- » -40°C to +80°C

Nominal Voltage

- » U0/U: 600/1000 V

Part No.	Cores	Description	OD (mm)
1.5mm			
0045207	4	3 Core + Earth	10.9
0045211	12	11 Core + Earth	17.6
0045213	24	23 Core + Earth	20.7
0045214	36	35 Core + Earth	31.4
2.5mm			
0045218	5	4 Core + Earth	13.2

Part No.	Cores	Description	OD (mm)
4mm			
0045225	4	3 Core + Earth	14.3
16mm			
0045231	4	3 Core + Earth	22.2
25mm			
0045232	4	3 Core + Earth	27.6

ÖLFLEX® CRANE

HIGHLY FLEXIBLE AND WEATHER-PROOF RUBBER CABLES WITH SUPPORT ELEMENT



LAPP KABEL STUÏTGART ÖLFLEX® CRANE CE



Construction

- » Conductor made of bare copper wires
- » Core insulation: rubber compound
- » Outer sheath: rubber compound, type EM2
- » Special supporting element as strain relief
- » Up to 5 cores: colour-coded
- » From 6 cores: black and white numbers

Minimum Bending Radius

- » Flexible use: 12.5 x outer diameter
- » Fixed installation: 6 x outer diameter

Temperature Rating

- Flexible use:
- » -25°C to +80°C
- Fixed installation:
- » -40°C to +80°C

Nominal Voltage

- » U0/U: 300/500 V

Test Voltage

- » 3000 V

Part No.	Cores	Description	OD (mm)
1mm			
00390033	4	3 Core + Earth	8.9
0039107	7	6 Core + Earth	12.9
0039054	12	11 Core + Earth	18.5
0039056	24	23 Core + Earth	22.1

Part No.	Cores	Description	OD (mm)
1.5mm			
00390193	4	3 Core + Earth	9.9
0039209	9	8 Core + Earth	15.9
0039058	12	11 Core + Earth	19.9
0039060	24	23 Core + Earth	23.4



EXPANDED AMBIENT TEMPERATURE CABLE

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

ÖLFLEX® HEAT 125 SC

Versatile single core cable suitable for use in ambient temperature from -55°C to 125°C
Available in 12 different colours and 18 sizes (0.5mm to 240mm)



ÖLFLEX® HEAT 125 MC / C MC

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



ÖLFLEX® HEAT 180 SIF

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



ÖLFLEX® HEAT 180 SIHF

Silicone cables with extended ambient temperature range, -50°C to 180°C
Available in number and colour coded versions



**We have a large range of Expanded Ambient Temperature cables.
View the full range online at lappaustralia.com.au/heat-resistant-cable.**



Benefits

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

Temperature Rating

- » -40°C to +120°C max

Test Voltage

- » AC 6500 V

Norm references / Approvals

- » H1Z2Z2-K (type according to EN 50618)
- » IEC 62930
- » EN 50618

Application Range

- » For use in photovoltaic-systems with rated voltage 1500 V DC
- » For the cabling between the solar modules and as extension cable between the module strings and the DC/ AC inverter
- » Gable and flat roof photovoltaic systems
- » Photovoltaic plants and solar parks
- » Not suitable for direct burial, Installation according to IEC 60364-5-52, respectively HD 60364-5-52

Special Features

- » Halogen-free and flame-retardant
- » Weather /UV-resistant acc. to EN 50618
- » Ozone-resistant according to EN 50396
- » XLR-E = X-Linked Radiated-EN Standard Proven electron beam cross-linked quality

Part No.	Cores	Conductor	Conductor Colours	OD	Drum Size
Single Core					
1023716S	1	4mm	White	5.2mm	100m
1023716	1	4mm	White	5.2mm	500m
1023717	1	6mm	White	5.8mm	500m
1023718	1	10mm	White	7.2mm	500m

ÖLFLEX® EARTH CABLE

EARTH CABLE WITH AN EXTRA UV RESISTANT SHEATH



Construction

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

Temperature Rating

- » -40°C to +120°C

Test Voltage

- » 3000V

Special Features

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

Part No.	Cores	Conductor	Conductor Colours	OD	Drum Size
Single Core					
0025814S	1	4mm	Earth	6mm	100m
0025823S	1	6mm	Earth	7.1mm	100m





UNITRONIC® LIYY BK

FLEXIBLE FLAME RETARDANT DATA CABLE NOW IN BLACK UV-RESISTANT SHEATH



Construction

- » Fine-wire strands made of bare copper wires
- » Core insulation made of PVC
- » Outer sheath made of PVC. Colour: black/grey
- » BK version: outdoor use

Minimum Bending Radius

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

Temperature Rating

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

Grey	Black	Cores	OD (mm)
0.14mm			
0028202	1030200	2	3.2
0028203	1030201	3	3.4
0028204	1030202	4	3.6

Grey	Black	Cores	OD (mm)
0.25mm			
0028302	1030217	2	3.8
0028303	1030218	3	4
0028304	1030219	4	4.3
0.34mm			
0028402	1030237	2	4.2

UNITRONIC® LIYCY BK

FLEXIBLE FLAME RETARDANT SCREENED DATA CABLE NOW IN BLACK UV-RESISTANT SHEATH



Construction

- » Fine wire strands made of bare copper wires
- » Tinned-copper braiding
- » Core insulation made of PVC
- » Outer sheath made of PVC. Colour: black/grey
- » BK version: outdoor use

Minimum Bending Radius

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

Temperature Rating

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

Grey	Black	Cores	OD (mm)
0.25mm			
0034402	1030473	2	4.5
0034403	1030474	3	4.7
0034404	1030475	4	5
0034405	1030476	5	5.6
0034406	1030477	6	6
0034408	1030479	8	7.1
0034410	1030480	10	7.5
0.34mm			
0034502	1030495	2	4.9
0034503	1030496	3	5.1
0034504	1030497	4	5.7
0034505	1030498	5	6.2
0034506	1030499	6	6.8

Grey	Black	Cores	OD (mm)
0.5mm			
0034602	1030517	2	5.6
0034603	1030518	3	5.9
0034604	1030519	4	6.3
0034605	1030520	5	7
0034606	1030521	6	7.6
0034608	1030523	8	8.7
0034610	1030524	10	9.3
0.75mm			
0034702	1030530	2	6
0034703	1030531	3	6.3
0034704	1030532	4	7
1mm			
0034802	1030540	2	6.3

UNITRONIC® LIYCY TP BK

FLEXIBLE FLAME RETARDANT SCREENED DATA CABLE WITH TWISTED PAIRS NOW IN BLACK SHEATH



Construction

- » Fine-wire strands made of bare copper wires
- » Tinned-copper braiding
- » TP design to minimise crosstalk effects
- » Core insulation made of PVC
- » Outer sheath made of PVC. Colour: black/grey
- » BK version: outdoor use

Minimum Bending Radius

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

Temperature Rating

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

Grey	Black	Cores	OD (mm)
0.14mm			
0035131	1030600	2	5.3
0035141	1030607	3	5.8
0035132	1030601	4	6.2
0035133	1030602	6	7.1
0.25mm			
0035800	1030610	2	6.3
0035801	1030611	3	7.1
0035802	1030612	4	7.6
0035803	1030613	6	8.5
0035804	1030614	8	10.3

Grey	Black	Cores	OD (mm)
0.5mm			
0035810	1030619	2	7.9
0035811	1030620	3	8.7
0035812	1030621	4	9.4
0035813	1030622	6	11.1
0035814	1030623	8	13.1
0.75mm			
0035820	1030626	2	8.5
0035822	1030628	4	10.7
1mm			
0035830	1030633	2	9
0035831	1030634	3	10

UNITRONIC® ST - SINGLE PAIR

FOIL SCREEN (SINGLE PAIR) FOR BMS HVAC



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°C to 60°C

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

Part No.	Type	Conductor	Conductor Colours	OD (mm)	Drum Size
3804580		24 AWG / ~0.25mm ²	Black/White	4.8	500m
3800764	8761	22 AWG / ~0.34mm ²	Black/White	4.5	305m
0033000	8762	20 AWG / ~0.5mm ²	Black/White	5.2	500m
0033002	8760	18 AWG / ~1.0mm ²	Black/White	5.6	305m
3804581		16 AWG / ~1.5mm ²	Black/White	6.7	500m / 1000m

UNITRONIC® ST - TRIPLE

FOIL SCREEN (TRIPLE CORE) FOR RTD'S



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
Black Sheath
» UV Resistant suitable for outdoor use.

Temperature Rating
» -30°C to 80°C

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

Part No.	Type	Sheath	Pairs	Conductor	Conductor Colours	OD (mm)
3804951	B5401FE	Cream	1 Triple (3 Core)	20 AWG / ~0.5mm ²	Black/Natural/Red	5.5
3804931	B5301FE	Cream	1 Triple (3 Core)	18 AWG / ~1.0mm ²	Black/Natural/Red	6.2
3802398	B5301FE	Black	1 Triple (3 Core)	18 AWG / ~1.0mm ²	Black/Natural/Red	6.2

UNITRONIC® ST - SERIAL RS485

FOR SERIAL RS485 COMMUNICATIONS



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	OD (mm)	Drum Size
3800765	9841	1 Pair	24 AWG / ~0.25mm ²	Bu/Wh & Wh/Bu	5.9	305m
3800953	9842	2 Pair	24 AWG / ~0.25mm ²	Bu/Wh & Wh/Bu + Og/Wh & Wh/Og	8.8	305m

UNITRONIC® ST - SERIAL RS232

FOR SERIAL RS232 & RS422 COMMUNICATIONS



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

Impedance
» 100 Ohm

Applications
» RS232
» RS422

Nominal Voltage
» 30V

Part No.	Type	Pairs	Conductor	OD (mm)	Drum Size	Pairs	Core 1	Core 2
3800950	B1419A	2 Pair	24 AWG / ~0.25mm ²	6.3	305m	Pair 1	Wh/Bu Stripe	Bu/Wh Stripe
3800951	B1421A	4 Pair	24 AWG / ~0.25mm ²	7.1	305m	Pair 2	Wh/Og Stripe	Og/Wh Stripe
3804947	B1424A	12 Pair + 1 Core	24 AWG / ~0.25mm ²	10.6	305m	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	

INSTRUMENTATION CABLE RE-Y(ST)Y

OVERALL SCREENED INSTRUMENTATION CABLE 500V



Construction

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

Minimum Bending Radius

» Fixed: 6 x cable OD

Temperature Rating

» Fixed: -30°C to 105°C

Nominal Voltage

» 500V

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

INSTRUMENTATION CABLE RE-Y(ST)Y PIMF

INDIVIDUAL AND OVERALL SCREENED INSTRUMENTATION CABLE 500V



Construction

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

Impedance

» Flexing: 6 x cable OD

Applications

» Fixed: -30°C to 105°C

Nominal Voltage

» 500V

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

INSTRUMENTATION CABLE RE-Y(ST)YRY SWA

ARMoured AND OVERALL SCREENED INSTRUMENTATION CABLE 500V



Construction

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

Impedance

» Flexing: 10 x cable OD

Applications

» Fixed: -30°C to 105°C

Nominal Voltage

» 500V

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

UNITRONIC® ROBUST

ALL WEATHER DATA CABLE RESISTANT TO A WIDE RANGE OF CHEMICAL MEDIA



Construction

- » Fine-wire/multi-wire (0.34 mm²) strand made of bare copper wires
- » Core insulation made of special halogen-free compound
- » Tinned-copper braiding
- » Outer sheath made of special TPE.

Minimum Bending Radius

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

Temperature Rating

- » Flexing: -40°C to 90°C
- » Fixed: -50°C to 90°C

Test Voltage

- » 1200 V

Part No.	Cores	Conductor	OD (mm)
1032014	4	0.25mm	4.3
1032026	3	0.34mm	4.4
1032027	4	0.34mm	4.8

UNITRONIC® ROBUST C

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



Construction

- » Fine-wire/multi-wire (0.34 mm²) strand made of bare copper wires
- » Core insulation made of special halogen-free compound
- » Tinned-copper braiding
- » Outer sheath made of special TPE

Minimum Bending Radius

- » Occasional flexing: 10 x OD
- » Fixed installation: 4 x OD

Temperature Rating

- » Occasional flexing: -40°C to 90°C
- » Fixed installation: -50°C to 90°C

Test Voltage

- » 1200 V

Part No.	Cores	Conductor	OD (mm)	Part No.	Cores	Conductor	OD (mm)
1032051	3	0.14mm	4.1	1032076	4	0.34mm	5.7
1032062	2	0.25mm	4.5	1032079	7	0.34mm	6.8
1032064	4	0.25mm	5				
1032067	7	0.25mm	6				

UNITRONIC® ROBUST C (TP)

ALL WEATHER TWISTED PAIRS DATA CABLE SCREENED & RESISTANT TO A WIDE RANGE OF CHEMICAL MEDIA



Construction

- » Fine-wire/multi-wire (0.34 mm²) strand made of bare copper wires
- » Twisted pari (TP) design
- » Core insulation made of special halogen-free compound
- » Tinned-copper braiding
- » Outer sheath made of special TPE.

Minimum Bending Radius

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

Temperature Rating

- » Flexing: -40°C to 90°C
- » Fixed: -50°C to 90°C

Test Voltage

- » 1200 V

Part No.	Cores	Pairs	Conductor	OD (mm)	Part No.	Cores	Pairs	Conductor	OD (mm)
1032108	4	2	0.25mm	6.3	1032118	2	1	0.5mm	5.6
1032109	6	3	0.25mm	7.1	1032119	4	2	0.5mm	7.9
1032110	8	4	0.25mm	7.6	1032120	6	3	0.5mm	8.7
1032112	12	6	0.25mm	8.5	1032121	8	4	0.5mm	9.4
					1032123	12	6	0.5mm	11.1
					1032133	8	4	1.0mm	11.3

UNITRONIC® FD CP (TP) PLUS A

HIGHLY FLEXIBLE SCREENED LOW-FREQUENCY DATA CABLE TWISTED PAIR FOR DRAG CHAIN APPLICATIONS



Construction

- » Fine-wire/multi-wire (0.34 mm²) strand made of bare copper wires
- » Twisted pari (TP) design
- » Core insulation made of special halogen-free compound
- » Tinned-copper braiding, Outer sheath made of special TPE.

Minimum Bending Radius

- » Occasional flexing: 10 x OD
- » Fixed installation: 4 x OD

Temperature Rating

- » Occasional flexing: -40°C to 90°C
- » Fixed installation: -50°C to 90°C

Test Voltage

- » At 0.14 mm²: 1200 V

Part No.	Cores	Pairs	Conductor	OD(mm)	Part No.	Cores	Pairs	Conductor	OD(mm)
11139501	4	2	0.14mm	5.9	11139528	28	14	0.5mm	15.5
11139503	8	4	0.14mm	6.7	11139530	6	3	0.75mm	9.8
11139508	4	2	0.25mm	6.6	11139531	8	4	0.75mm	10.7
11139510	8	4	0.25mm	7.6	11139532	12	6	0.75mm	12.3
11139511	10	5	0.25mm	8.5	11139537	4	2	1.0mm	9.9
11139512	12	6	0.25mm	8.8	11139539	8	4	1.0mm	11.8
11139521	4	2	0.5mm	8.3	11139540	10	5	1.0mm	13.1
11139524	10	5	0.5mm	10.7					

UNITRONIC® BUS PB CABLES

PROFIBUS CABLES FOR FIXED APPLICATIONS



Various fixed bus cables for PROFIBUS-DP, -FMS and FIP. E.g. Fast Connect and halogen free versions available.

Part No.	Type	No. of Pairs/Conductor diameter (mm)	OD [mm]	Sheath Type
2170220	Standard	1 X 2 X 0.64	8	PVC
2170330	UL/CSA Fast Connect	1 X 2 X 0.64	8	Polyurethane
2170820	Fast Connect	1 X 2 X 0.64	8	PVC
2170233	Standard, black	1 X 2 X 0.64	7.8	Polyethylene, black
2170326	Halogen-free	1 X 2 X 0.64	8	Thmoplasic Comund

UNITRONIC® BUS PB FD CABLES

HIGHLY FLEXIBLE PROFIBUS CABLES FOR DRAG CHAIN APPLICATIONS



Various flexible bus cables for PROFIBUS-DP, -FMS and FIP. E.g. Fast Connect and halogen free versions available.

Part No.	Type	No. of Pairs/Conductor diameter (mm)	OD [mm]	Sheath Type
2170222	Halogen-free	1 X 2 X 0.64	8	Polyurethane
2170822	UL/CSA	1 X 2 X 0.64	8	Polyurethane

EPIC® PB CONNECTORS

PROFIBUS CONNECTORS WITH SCREW | REPEATER | FAST CONNECT



PROFIBUS Sub-D connector, screw terminals, integrated bus termination, optional LED diagnostic/interfaces, cable outlet 35°/90°/180°.

Part No.	Style	Connector	Version	PG-Interface
21700501	90°	Fast Connect		yes
21700504	90°	Screw		no
21700505	180°C/ Straight	Screw		no
21700507	35°	Screw		no
21700511	35°	Fast Connect		no
21700529	90°	Screw	Diagnostic LED	yes
21700530	90°	Screw	Diagnostic LED	no

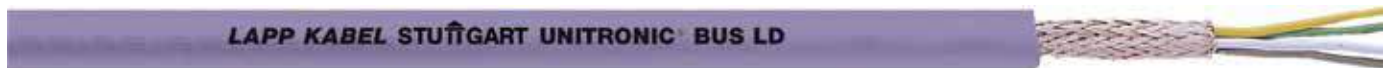


LAPP

PROFIBUS

UNITRONIC® BUS LD

FLEXIBLE BUSCABLE WITH PVC OUTER SHEATH, FOR USE IN SERIAL BUS SYSTEMS



Construction

For fixed installation, Maximum electromagnetic screening, Bus cables for bus systems such as e.g. Modbus, SUCOnet P, Modulink P, VariNet-P), Dry or damp rooms.

Minimum Bending Radius

» Fixed installation: 8 x cable OD

Temperature Rating

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

Test Voltage

» Core/core: 1500 V rms

Part No.	Type	No. of pairs and conductor diameter (mm)	OD [mm]	Sheath Type
2170203	Stranded Conductor	1 x 2 x 0.22mm	5.7	PVC
2170204	Stranded Conductor	2 x 2 x 0.22mm	7.1	PVC

UNITRONIC® BUS LD FD P

HIGHLY FLEXIBLE BUSCABLE WITH PUR OUTER SHEATH FOR DRAG CHAIN APPLICATIONS



Construction

» Extra-fine wire, tinned copper strands
» Core insulation: PE
» Outer sheath: PUR, violet
» Overall screening of braided tinned-copper strands

Minimum Bending Radius

» Fixed installation: 6 x core diameter
» One bend at end of core: 3 x cable diameter
» Flexing: 15 x outer diameter

Temperature Rating

» Flexing: -30°C to +70°C
» Fixed installation: -40°C to +80°C

Test Voltage

» Core/core: 1500 V rms

Part No.	Type	No. of pairs and conductor diameter (mm)	OD [mm]	Sheath Type
2170213	Fine Stranded	1 x 2 x 0.25mm	6	PUR

UNITRONIC® BUS ASI

AS-INTERFACE CABLES FOR NETWORKING SYSTEMS IN THE FIELD



Construction

Communication at sensor/actuator level, Sensor-/actuator wiring, For fixed installation/occasional flexing at free, non-continuously recurring movement without tensile load, TPE version has oil resistant outer sheath. Suitable for wet areas, particularly in conjunction with water-soluble cooling lubricants.

Minimum Bending Radius

» Fixed installation: 12mm
» Flexible use 24mm

Temperature Rating

» Dependent on outer sheath material: PVC: -30°C to 90°C
» During Installation: PVC -20°C to 90°C
» TPE/Rubber Static: PVC -40°C to +85°C
» TPE/Rubber Moved: -30°C to +85°C

Test Voltage

» Core/core: 2000 V

Part No.	Type	No. of pairs and conductor diameter (mm)	Sheath Type
2170228	Fine Stranded	2 x 1.5mm	Rubber (Yellow)
2170229	Fine Stranded	2 x 1.5mm	Rubber (Black)
2170230	Fine Stranded	2 x 1.5mm	TPE (Yellow)
2170231	Fine Stranded	2 x 1.5mm	TPE (Black)
2170842	Fine Stranded	2 x 1.5mm	PVC (Yellow)

UNITRONIC® BUS PA

PROFIBUS CABLES FOR APPLICATIONS IN MANUFACTURING AND PROCESS AUTOMATION



Construction

Process-automation application for connecting sensors and actuators - including areas with risks of explosion. Fixed Installation.

Minimum Bending Radius

» Fixed installation: 10 x Cable OD

Temperature Rating

» Fixed installation: -30°C to +80°C
» During installation: -5°C to +50°C

Test Voltage

» Core/core: 1500 V rms

Part No.	Type	No. of pairs and conductor diameter (mm)	OD [mm]	Sheath Type
2170234	Stranded Conductor	1 x 2 x 1.3mm	8	PVC (Blue)

UNITRONIC® BUS KNX

DATA CABLE USED FOR KNX / COMMUNICATION IN BUILDING MANAGEMENT APPLICATIONS



Part No.	Type	No. of pairs and conductor diameter (mm/AWG)	OD [mm]	Sheath Type
2170240	KNX	2 x 2 x 0.8mm	6.6	PVC (Green)
2170241	KNX	2 x 2 x 0.8mm	6.6	Halogen Free

UNITRONIC® BUS DEVICENET THICK + THIN

FOR CABLE FOR CONNECTIN INDUSTRIAL DEVICES WITH PVC SHEATH FOR FIXED APPLICATIONS



UNITRONIC® BUS DeviceNet TRUNK Cable

UNITRONIC® BUS DeviceNet DROP Cable

Part No.	Type	No. of cores and AWG per conductor	OD (mm)	Sheath Type
3801234	Static THICK (TRUNK) / 3082A	1x2xAWG18 + 1x2xAWG15	12	PVC (Grey)
3801235	Static THIN (DROP) / 3084A	1x2xAWG24 + 1x2xAWG22	7.1	PVC (Grey)

UNITRONIC® DEVICENET

FOR ALLEN BRADLEY PLC COMMUNICATION NETWORKS



UNITRONIC® BUS DeviceNet™ THICK Cable

UNITRONIC® BUS DeviceNet™ THIN Cable

Part No.	Type	No. of cores and AWG per conductor	OD (mm)	Sheath Type
2170343	Static THIN	1x2xAWG24 + 1x2xAWG22	6.9	PVC (Violet)
2170344	Dragchain THICK	1x2xAWG18 + 1x2xAWG15	12.2	PUR (Violet)
2170345	Dragchain THIN	1x2xAWG24 + 1x2xAWG22	6.9	PUR (Violet)

UNITRONIC® BUS CAN FD P

SCREENED CAN BUS CABLE FOR DRAGCHAIN APPLICATIONS, HALOGEN-FREE, FLAME RETARDANT



LAPP KABEL STUÏGART UNITRONIC® BUS CAN FD P

Part No.	Type	No. of pairs and conductor diameter (mm/AWG)	OD [mm]	Sheath Type
2170272	Dragchain - HIGHLY FLEXIBLE	1 x 2 x 0.25mm	6.4	PUR
2170273	Dragchain - HIGHLY FLEXIBLE	2 x 2 x 0.25mm	8.4	PUR
2170275	Dragchain - HIGHLY FLEXIBLE	1 x 2 x 0.34mm	6.8	PUR
2170276	Dragchain - HIGHLY FLEXIBLE	2 x 2 x 0.34mm	9.6	PUR
2170278	Dragchain - HIGHLY FLEXIBLE	1 x 2 x 0.5mm	8.0	PUR
2170279	Dragchain - HIGHLY FLEXIBLE	2 x 2 x 0.5mm	10.8	PUR

UNITRONIC® BUS CAN

CAN BUSCABLES FOR FIXED INSTALLATION - UL/SCA CERTIFIED



LAPP KABEL STUÏGART UNITRONIC® BUS CAN

Part No.	Type	No. of pairs and conductor diameter (mm/AWG)	OD [mm]	Sheath Type
2170260	FIXED	1 x 2 x 0.22mm	5.7	PVC
2170261	FIXED	2 x 2 x 0.22mm	7.6	PVC
2170263	FIXED	1 x 2 x 0.34mm	6.8	PVC
2170264	FIXED	2 x 2 x 0.34mm	8.5	PVC
2170266	FIXED	1 x 2 x 0.5mm	7.5	PVC
2170267	FIXED	2 x 2 x 0.5mm	9.6	PVC
2170269	FIXED	1 x 2 x 0.75mm	8.7	PVC
2170270	FIXED	2 x 2 x 0.75mm	11.5	PVC

UNITRONIC® BUS SWA

PROFIBUS STEEL WIRE ARMoured



LAPP KABEL STUÏGART UNITRONIC® BUS PA SWA

LAPP KABEL STUÏGART UNITRONIC® BUS PA SWA

Part No.	Type	No. of cores and conductor diameter (mm)	OD (mm)	Sheath Type
3803156	STEEL WIRE ARMOURING	1 x 2 x 0.64mm	12.6	PVC (Black)
3803158	STEEL WIRE ARMOURING	1 x 2 x 1.0mm	12.8	PVC (Black)
3803159	STEEL WIRE ARMOURING	1 x 2 x 1.0mm	12.8	PVC (Blue)

UNITRONIC® SENSOR FD CABLE

HIGHLY FLEXIBLE CABLE FOR EXTENDING LEADS OR WIRING M8 AND M12 CONNECTORS



Part No.	Size	Conductors								OD(mm)
Unscreened										
		1	2	3	4	5	6	7	8	-
7038865	4 x 0.34	Brown	White	Blue	Black					4.7
7038868	8 x 0.25	Brown	White	Green	Yellow	Grey	Pink	Blue	Red	5.9
Screened										
7038885	3 x 0.34	Brown	Blue	Black						4.3
7038886	4 x 0.34	Brown	White	Blue	Black					4.6
7038887	5 x 0.34	Brown	White	Blue	Black	Grey				5
Robust										
7038893	5 x 0.34	Brown	White	Blue	Black	Grey				4.5

UNITRONIC® M8 CONNECTORS WITH LEADS

PUR BLACK CABLE - DRAGCHAIN RATED - INCLUDES MARKER SLEEVES



Lead Length	Male / Pin Straight	Female / Socket Straight	Female / Socket 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



	Male	Female	Thread	Suitable Locknut
3 Pole	22260100	22260102	M8	
4 Pole	22260101	22260103	M8	



UNITRONIC® SENSOR DISTRIBUTION BOXES

DISTRIBUTION BOXES AVAILABLE WITH M8 OR M12 CONNECTORS



Passive (Conventional Wiring)

4 or 8 Slot x M12

4 or 8 Slot x M8

Active Fieldbus

Profibus

DeviceNet

AS-I



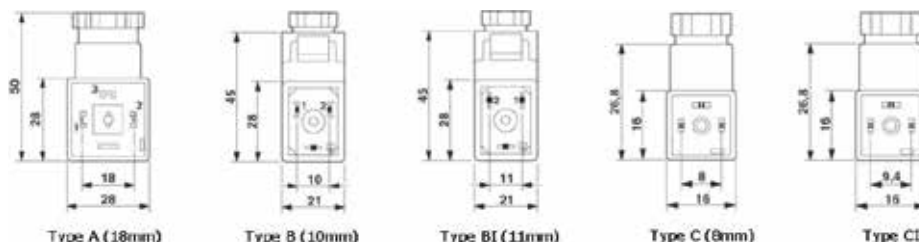
Part No	Description	Type	Thread
Sensor Blocks (#1364)			
22260031	Sensor Block M8 with 8 slots and LED indication	10m	M8
22260036	Sensor Block M8 with 8 slots and LED indication	Terminal Block	M8
22260002	Sensor Block M12 with 4 slots and LED indication		M12

UNITRONIC® VALVE CONNECTORS WITH LEADS

PUR BLACK CABLE - INCLUDES MARKER SLEEVES



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



UNITRONIC® M12 CONNECTORS WITH LEADS

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



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



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



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



3 POLE

4 POLE



SOLID CONDUCTORS FOR FIXED APPLICATIONS

ETHERLINE® PN CAT.5E Y

ETHERNET CABLE CATEGORY 5E, FIXED INSTALLATION - VERIFIED UP TO 100 MHZ



Part No.	Type	No. of pairs and conductor diameter (mm/AWG)	OD [mm]	Sheath Type
2170891	Solid CAT.5e	2 x 2 x AWG22/1	6.3	PVC

ETHERLINE® CAT.5E

ETHERNET CABLE CATEGORY 5E, CLASS D FOR FIXED INSTALLATION - VERIFIED UP TO 100 MHZ



Part No.	Type	No. of pairs and conductor diameter (mm/AWG)	OD [mm]	Sheath Type
2170280	Solid CAT.5e	2 x 2 x AWG24/1	5.6	LSZH Halogen-Free
2170296	Solid CAT.5e	4 x 2 x AWG24/1	6.1	LSZH Halogen-Free

ETHERLINE® CAT.6A FIXED

ETHERNET CABLE CATEGORY 6A, CLASS E FOR FIXED INSTALLATIONS - VERIFIED UP TO 500 MHZ



Part No.	Type	No. of pairs and conductor diameter (mm/AWG)	OD [mm]	Sheath Type
2170464	Solid CAT.6A	4 x 2 x AWG22/1	8.7	PVC

ETHERLINE® PN CAT.7

ETHERNET CABLE CATEGORY 6A, CLASS E FOR FIXED INSTALLATIONS - VERIFIED UP TO 500 MHZ



Part No.	Type	No. of pairs and conductor diameter (mm/AWG)	OD [mm]	Sheath Type
2170607	Solid CAT.7	2 x 4 x AWG23/1	8.1	PUR Halogen-Free

STRANDED CONDUCTORS FOR FLEXIBLE USE

ETHERLINE® PN CAT.5 FLEX FC

ETHERNET CABLE CATEGORY 5E, FOR FLEXIBLE USE - VERIFIED UP TO 100 MHZ



Part No.	Type	No. of pairs and conductor diameter (mm/AWG)	OD [mm]	Sheath Type
2170886	Stranded CAT.5e	2 x 2 x AWG22/7	6.5	PVC

ETHERLINE® CAT.5E FLEX

ETHERNET CABLE CATEGORY 5E, CLASS D FOR FLEXIBLE USE - VERIFIED UP TO 100 MHZ



Part No.	Type	No. of pairs and conductor diameter (mm/AWG)	OD [mm]	Sheath Type
2170299	Stranded CAT.5e	4 x 2 x AWG26/7	6.1	LSZH Halogen-Free
2170300	Stranded CAT.5e	4 x 2 x AWG26/7	6.1	PUR Halogen-Free
2170284	Stranded CAT.5e	2 x 2 x AWG26/7	5.6	PUR Halogen-Free

ETHERLINE® Y CAT.5E BK

ETHERNET CABLE CATEGORY 5E, BLACK SHEATH FOR UV AND WEATHER RESISTANCE, FOR FLEXIBLE USE



Part No.	Type	No. of pairs and conductor diameter (mm/AWG)	OD [mm]	Sheath Type
2170901	Stranded CAT.5e	2 x 2 x AWG22/7	6.2	Black PVC

ETHERLINE® CAT.7 FLEX

ETHERNET CABLE CATEGORY 7, CLASS D FOR FLEXIBLE USE - VERIFIED UP TO 10 GBIT/S



Part No.	Type	No. of pairs and conductor diameter (mm/AWG)	OD [mm]	Sheath Type
2170934	Stranded CAT.7	4 x 2 x AWG26/7	6.4	PUR Halogen-Free

FINELY STRANDED CONDUCTORS FOR DRAG CHAIN USE

ETHERLINE® CAT.5E FD P

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



Part No.	Type	No. of pairs and conductor diameter (mm/AWG)	OD [mm]	Sheath Type
2170489	Finely Stranded CAT.5e	4 x 2 x AWG26/19	6.3	PUR Halogen-Free
2170894	Finely Stranded CAT.5e	2 x 2 x AWG22/7	6.5	PUR Halogen-Free

ETHERLINE® CAT.6 FD

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



Part No.	Type	No. of pairs and conductor diameter (mm/AWG)	OD [mm]	Sheath Type
2170488	Finely Stranded CAT.6	4 x 2 x AWG26/19	7.8	PUR Halogen-Free

ETHERLINE® FD CAT.6A

ETHERNET CABLE CATEGORY 6A, CLASS E FOR USE IN DRAG CHAIN APPLICATIONS - VERIFIED UP TO 500 MHZ



Part No.	Type	No. of pairs and conductor diameter (mm/AWG)	OD [mm]	Sheath Type
2170484	Stranded CAT.6A	4 x 2 x AWG24/7	8.9	PUR Halogen-Free
2170485	Stranded CAT.6A	4 x 2 x AWG24/7	8.9	PVC

ROBUST ETHERLINE® UV & WEATHER RESISTANT

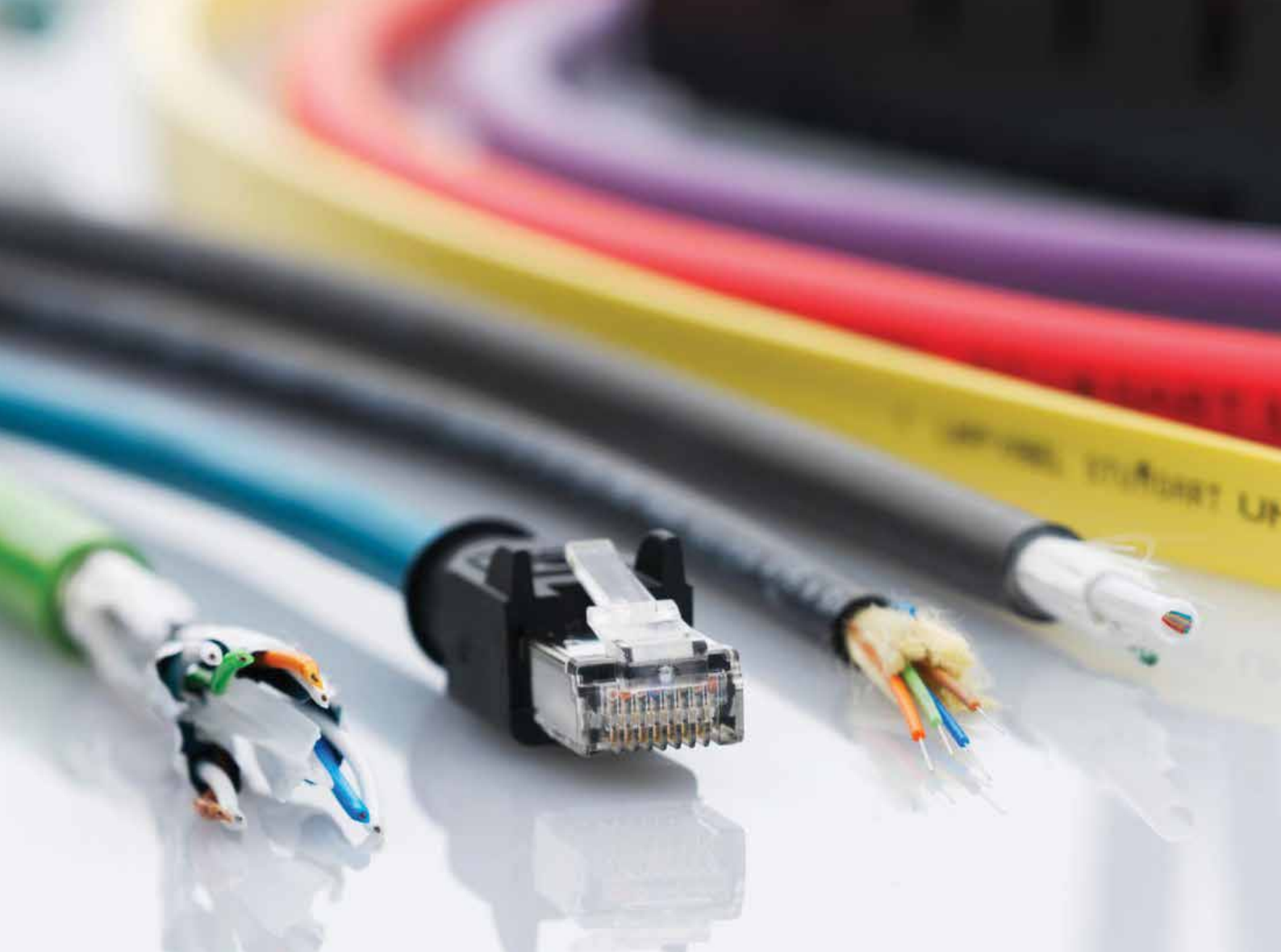
ETHERLINE® ROBUST PN

INDUSTRIAL ETHERNET CABLE FOR FOOD AND BEVERAGE (CHEMICAL RESISTANCE)



Construction	Minimum Bending Radius	Temperature Rating	Impedance
7-wire bare stranded copper conductor, Core insulation: Based on Polyolefin, Screening: wrapped with braided tinned-copper wires, Outer sheath made of special TPE	» Flexing: 10 x OD » Fixed installation: 8 x OD	» Occasional flexing: -40°C to +80°C » Fixed installation: -50°C to +80°C	» nom. 100 Ω acc. to IEC 61156-6

Part No.	Cores	Pairs	Conductor	OD (mm)
2170451	4	2	22/7 AWG	6.5
2170452	8	4	23/7 AWG	8.7
2170453	8	4	26/7 AWG	6.2



ETHERNET PATCH CABLES

CAT.6 ETHERNET F/UTP LSZH PATCH CABLES FOR INDUSTRIAL APPLICATIONS



Construction

- » Stranded bare copper wires
- » Core insulation: HD Polyethylene
- » Moulded RJ45 connectors
- » Low smoke zero halogen

Temperature Rating

- » Fixed installation: -20°C to +65°C

Rated Voltage

- » 150 V

Test Voltage

- » 1000V

Cable Length	0.5m	1m	1.5m	2m	3m	5m	7.5m	10m	15m	20m
Black	3805604	3805605	3805606	3805607	3805608	3805609	3805610	3805611	3805612	3805613
Grey (stocked range)	3805824	3805825	3805826	3805827	3805828	3805829	3805830	3805831	3805632	3805633
Blue	3805644	3805645	3805646	3805647	3805648	3805649	3805650	3805651	3805652	3805653
Yellow	3805664	3805665	3805666	3805667	3805668	3805669	3805670	3805671	3805672	3805673
Orange	3805810	3805811	3805812	3805813	3805814	3805815	3805816	3805817	3805818	3805819

ETHERLINE® LAN 200 CAT.5E

LAN CABLE FOR CATEGORY 5E/CLASS D UP TO 200 MHZ



LAPP KABEL STUÏTGART ETHERLINE® LAN 200 U/UTP Cat.5e

LAPP KABEL STUÏTGART ETHERLINE® LAN 200 F/UTP Cat.5e

LAPP KABEL STUÏTGART ETHERLINE® LAN 200 F/UTP Cat.5e Flex

Construction

Solid conductor 4x2xAWG24/1

Minimum Bending Radius

» Fixed installation: 4 x Cable OD
» During installation: 8 x Cable OD

Temperature Rating

» Fixed installation: -20°C to +60°C
» During installation: 0 °C to +50 °C

Impedance

» 100 Ω ± 15%/ 100 MHz

Part No.	Description	Cores	Pairs	Conductor	OD (mm)
2170950	LAN Cat.5e U/UTP	8	4	24AWG	6.3
2170951	LAN Cat.5e SF/UTP	8	4	24AWG	6.3
2170952	LAN Cat.5e F/UTP	8	4	24AWG	6.4
2170953	LAN Cat.5e SF/UTP	8	4	24AWG	5.1

ETHERLINE® LAN 350 CAT.6

LAN CABLE FOR CATEGORY 6/CLASS E UP TO 350 MHZ



LAPP KABEL STUÏTGART ETHERLINE® LAN 350 U/UTP Cat.6

LAPP KABEL STUÏTGART ETHERLINE® LAN 350 U/UTP Cat.6 LSZH

Construction

Solid conductor U/UTP: no overall or pair screening, 2 cores stranded to pair, 4 pairs stranded to bundle with central cross F/UTP: Foil shielding as overall shielding, 2 cores stranded to pair, 4 pairs stranded to bundle with central cross outer sheath either as PVC (grey RAL 7035) or LSZH (orange RAL 2003).

Minimum Bending Radius

» Fixed installation: 4 x Cable OD
» During installation: 8 x Cable OD

Temperature Rating

» Fixed installation: -20°C to +60°C
» During installation: 0 °C to +50 °C

Impedance

» nom. 100 Ω acc. to IEC 61156-5

Part No.	Description	Cores	Pairs	Conductor	OD (mm)
2170955	LAN Cat.6 U/UTP	8	4	24AWG	6.0
2170956	LAN Cat.6 F/UTP	8	4	24AWG	7.4

UNITRONIC® LAN 500 CAT.6A

LAN CABLE FOR CATEGORY 6A/CLASS EA UP TO 500MHZ



LAPP KABEL STUÏTGART UNITRONIC® LAN 500 S/FTP Cat.6A 4x2xAWG23/1

Construction

PVC sheath, solid conductor, S/FTP: copper braid as overall screening and pair screening with aluminium compound foil

Minimum Bending Radius

» Fixed installation: 4 x cable OD
» During installation: 8 x cable OD

Temperature Rating

» Fixed installation: -20°C to +60°C
» Flexing: 0°C to +50°C

Impedance

» 100 Ω ± 15%

Part No.	Description	Cores	Pairs	Conductor	OD (mm)
2170143	LAN Cat.6A S/FTP	8	4	23AWG	7.7

UNITRONIC® LAN 600 CAT.7

LAN CABLE FOR CATEGORY 7 UP TO 600MHZ



LAPP KABEL STUÏTGART ETHERLINE® LAN 600 S/FTP Cat.7 Flex

Minimum bending radius

» During installation: 8 x OD
» Fixed installation: 4 x OD

Benefits

» For directly connecting two electric components
» Easy to assemble

Application Range

» Indoor applications
» LAN connections
» Control cabinet wiring

Temperature Range

» Operating temperature: -20°C to +60°C
» During installation: 0 °C to +50 °C

Part No.	Type	Strands/Conductor	Cores & Size	OD
2170144	LAN FLEX S/FTP CAT7 Y Unshielded	7	4 x 2 x 23AWG	6.2

21700600 - FIELD MOUNTABLE No Tools Required

Features

4 Pair: Standard T568A
Solid Wire: 24 to 22AWG
7 Stranded: 27 to 22AWG
Cable OD: 5-9mm



21700652 - FIELD MOUNTABLE Now With Gland

Features

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



21700615 - FOR FD CABLES No Tools Required

Features

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



21700654 - FOR FD CABLES Now With Gland

Features

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



21700605 - PROFINET® COLOUR CODING No Tools Required

Features

2 Pair: ProfiNet YE, OG, BU, WH
Solid Wire: 24 to 22AWG
7 Stranded: 27 to 22AWG
Cable OD: 5-9mm



21700651 - PROFINET® COLOUR CODING Now With Gland

Features

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



21700639 - FOR FD CABLES No Tools Required

Features

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 No Tools Required

Features

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



21700611 - RJ45 CAT.6A COUPLER

Features

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



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 No Tools Required

Features

2 Pair: D Coded
IP67
Solid Wire: 26 to 22AWG
7 Stranded: 26 to 22AWG
Cable OD: 4-8mm



22261016 - FEMALE D CODED No Tools Required

Features

2 Pair: D Coded
IP67
Solid Wire: 26 to 22AWG
7 Stranded: 26 to 22AWG
Cable OD: 4-8mm



21700623 - ETHERNET CABLE JOINER No Tools Required

Features

For Joining Ethernet Cables
Suitable for speeds up to CAT7A
4 Pair
IP67
Solid Wire: 24 to 22AWG
7 Stranded: 24 to 22AWG
Cable OD: 5-10mm



21700540 - FIELD MOUNTABLE No Tools Required

Features

4 Pair: Standard T568A
Suitable for speeds up to CAT5e
Solid Wire: 26 to 23AWG
7 Stranded: 26 to 24AWG



CONNECTIVITY MEETS SECURITY

TOSIBOX

LAPP



TOSIBOX®

TOSIBOX® Lock

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

LOCK 500/500i - TBL5B/TBL5iB

Features

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

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



NEW LOCK 210/250 - TBL21/TBL25

Features

Following the same look and feel as the award-winning TOSIBOX® Lock 500, the new 200 series provide a secure end-point for any type of operational infrastructure.

- » Up to 20 concurrent VPN connections
- » VPN throughput up to 30 Mbit/s
- » TOSIBOX® Lock 250 with integrated WiFi
- » TOSIBOX® Lock 210



LOCK 175 - TBL175

Features

Industrial router with firewall, 4G module and secure Plug & Go™ connectivity. Serves as an end point for secure remote connections.

- » Up to 10 concurrent VPN connections
- » VPN throughput up to 10 Mbit/s



TOSIBOX® Key

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

KEY - TBK2 SOFT KEY - TBSKL1

Features

Intelligent cryptoprocessing device that enables a secure connection between your computer and one or more TOSIBOX® Lock.

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



TOSIBOX® 600 SERIES - TBL610AU/TBL650AU/TBL675AU

Features

Tosibox® 600 series contains devices for all connectivity scenarios and meets the most demanding operating conditions. Bringing connectivity to those hard to reach locations has never been this easy. 600 Series has VPN throughput up to 70Mbit/s and up to 50 concurrent VPN connections.

- » TOSIBOX® 610 - High Performance Ethernet
- » TOSIBOX® 650 - High Performance for Ethernet or WiFi
- » TOSIBOX® 670 - High Performance, GPS, for 2x4G and Ethernet
- » TOSIBOX® 675 - High Performance, GPS, for 2x4G, Ethernet and WiFi



Learn more and explore the full TOSIBOX® range at lappaaustralia.com.au/remote-access-solutions

INDUSTRIAL ETHERNET SWITCH

NETWORK SWITCHES FOR ETHERNET BASED SOLUTIONS IN SMART FACTORIES



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

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

- Product Features Managed (in addition to Unmanaged)**
- » Simple setup of redundant network topologies
 - » Packet Buffer Size: 1Mbit
 - » Supported protocols: HTTP, Telnet, EtherNet/IP, Modbus/TCP, IPv6, and many more

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

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



UNMANAGED

MANAGED

Part No.	Ports
Unmanaged	
21700118	5
21700119	8
Managed	
21700121	5
21700122	8

INDUSTRIAL ETHERNET SWITCH GEN2

FASTER NETWORK SWITCHES FOR ETHERNET BASED SOLUTIONS IN SMART FACTORIES



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

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

- Product Features Managed (in addition to Unmanaged)**
- » Simple setup of redundant network topologies
 - » Supported protocols: HTTPS/SSL, SSH, TACACS+, RADIUS, SNMP Client, Ethernet IP, Modbus TCP

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

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



UNMANAGED

MANAGED

Part No.	Ports
Unmanaged	
21700123	5
21700124	8
Managed	
21700125	6
21700126	8

FIREWALL / NAT ROUTER

INDUSTRIAL NAT ROUTER WITH FIREWALL FUNCTION



- Info**
- » Compact design
 - » Tailor-made solution

- Product Features**
- » NAT (Basic NAT, NATPT) and port forwarding
 - » Integrated Firewall feature
 - » RJ45 Ports: 10/100/1000BaseT(X)

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

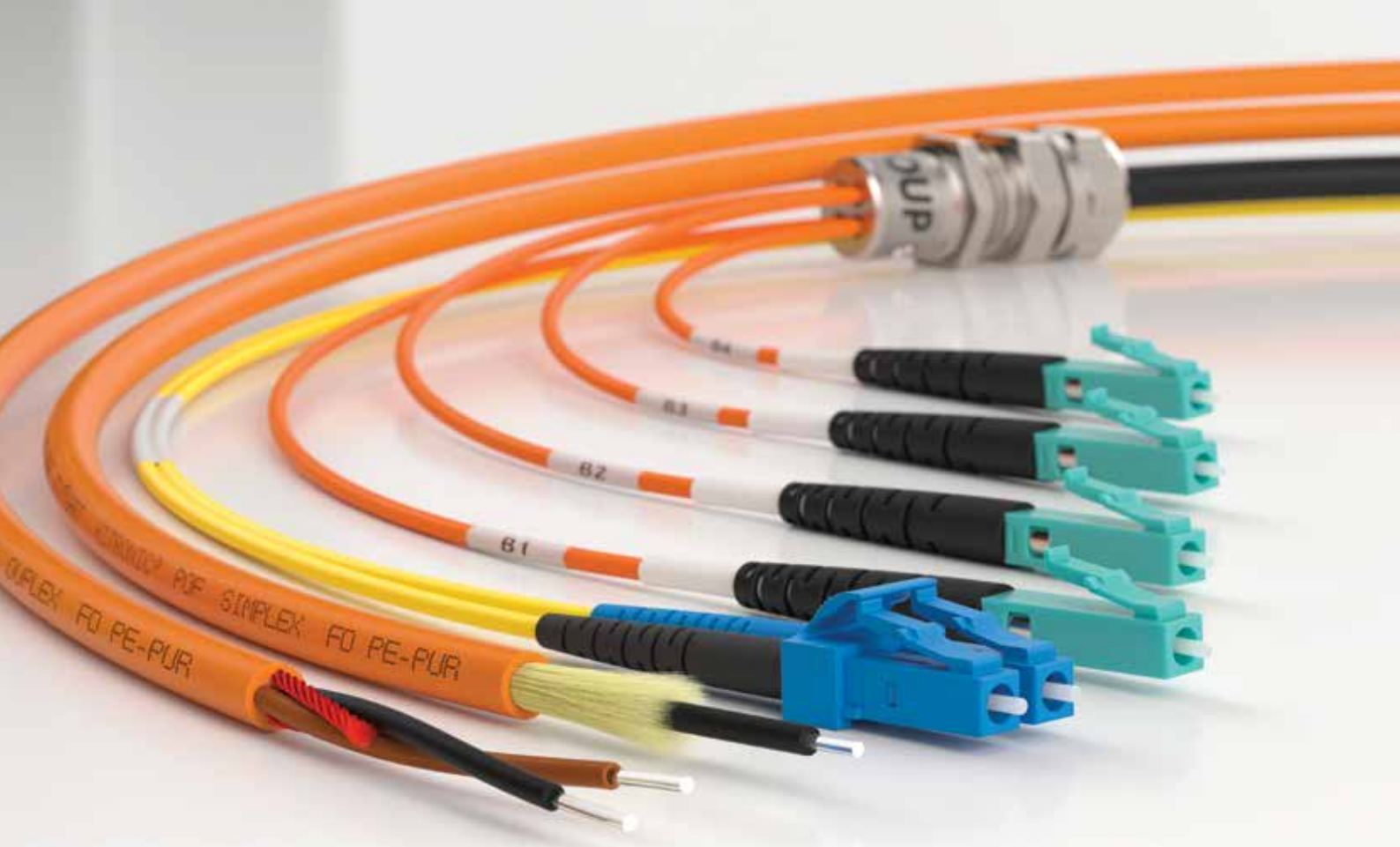
- Temperature Range**
- » Managed: -40°C to +75°C



Part No.	Type	Ports
21700141	Managed	4



INDUSTRIAL ETHERNET SWITCHES



HITRONIC®

Optical transmission systems

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

Application range

- Telecommunications and network technology
- Industrial cabling and automation level
- Industrial machinery and plant engineering
- Data transmission under harsh conditions (mining and tunnel construction, oil and gas platforms, wind power plants)

OPTICAL TRANSMISSION SYSTEMS

HITRONIC® PRODUCT OVERVIEW

Type of fibre		Cables	Connectors & Adapters	Accessories
POF Polymer Optical Fibre	POF SIMPLEX PE			
	POF DUPLEX PE			
	POF SIMPLEX PE-PUR			
	POF DUPLEX PE-PUR			
	POF DUPLEX Heavy			
	POF SIMPLEX/DUPLEX FD PE-PUR			
	POF DUPLEX for PROFINET® applications			
PCF Plastic Cladded Fibre	PCF SIMPLEX Outdoor			
	PCF DUPLEX Outdoor			
	PCF DUPLEX Indoor			
	PCF DUPLEX FD Universal			
	PCF DUPLEX for PROFINET® applications			
GOF Glass Optical Fibre	HITRONIC® FIRE			
	HITRONIC® TORSION			
	HRM-FD Flexible			
	HDM Reel			
	HQN Outdoor			
	HVN Stranded Outdoor			
	HVN-Mini Outdoor (air blowable)			
	HQW Armoured Outdoor			
	HWW Armoured Stranded Outdoor			
	HQW-Plus Armoured Outdoor			
	HQA Aerial ADSS			
	HQA-Plus Aerial ADSS			
	HUN Universal			
	HUW Armoured Universal			
	HRH Breakout			
	HDH Mini Breakout			

HITRONIC® HUN UNIVERSAL FIBRE CABLE

UNIVERSAL CABLE WITH CENTRAL LOOSE TUBE AND NON-METALLIC STRAIN RELIEF



Construction

- » Glass fibres with primary coding
- » Gel-filled loose tube
- » Water-blocking reinforced glass yarn strain relief
- » LSZH outer sheath

Minimum Bending Radius

- » Dynamic flexing: 20 x outer diameter
- » Static installation: 15 x outer diameter

Permissible Tensile Force

- » Fixed installation: 1500 N
- » Short-term: 2000 N

Fibre Type

- » GOF - Glass Optical Fibre

Temperature Rating

- » Fixed installation: -30°C to +70°C

Part No.	Number Of Fibres	OD(mm)
Single-mode E 9 OS2		
27400904	4	7.3mm
27400908	8	7.3mm
27400912	12	7.3mm
Multimode G 62.5 OM1		
27400104	4	7.3mm
27400108	8	7.3mm
27400112	12	7.3mm
Multimode G 50 OM2		
27400204	4	7.3mm
27400208	8	7.3mm
27400212	12	7.3mm
Multimode G 50 OM3		
27400304	4	7.3mm
27400308	8	7.3mm
27400312	12	7.3mm
Multimode G 50 OM4		
27400404	4	7.3mm
27400408	8	7.3mm
27400412	12	7.3mm

HITRONIC® HUW ARMoured UNIVERSAL FIBRE CABLE

UNIVERSAL CABLE WITH CENTRAL LOOSE TUBE, CORRUGATED STEEL TAPE AND NON-METALLIC STRAIN RELIEF



Construction

- » Gel-filled loose tube
- » Water-blocking reinforced glass yarn strain relief
- » Corrugated steel tape armour
- » LSZH outer sheath

Minimum Bending Radius

- » Dynamic flexing: 20 x outer diameter
- » Static installation: 15 x outer diameter

Permissible Tensile Force

- » Fixed installation: 1500 N
- » Short-term: 2000 N

Fibre Type

- » GOF - Glass Optical Fibre

Temperature Rating

- » Fixed installation: -30°C to +70°C

Part No.	Number Of Fibres	OD(mm)
Single-mode E 9 OS2		
27500904	4	9.6mm
27500908	8	9.6mm
27500912	12	9.6mm
Multimode G 62.5 OM1		
27500104	4	9.6mm
27500108	8	9.6mm
27500112	12	9.6mm
Multimode G 50 OM2		
27500204	4	9.6mm
27500208	8	9.6mm
27500212	12	9.6mm
Multimode G 50 OM3		
27500304	4	9.6mm
27500308	8	9.6mm
27500312	12	9.6mm
Multimode G 50 OM4		
27500404	4	9.6mm
27500408	8	9.6mm
27500412	12	9.6mm

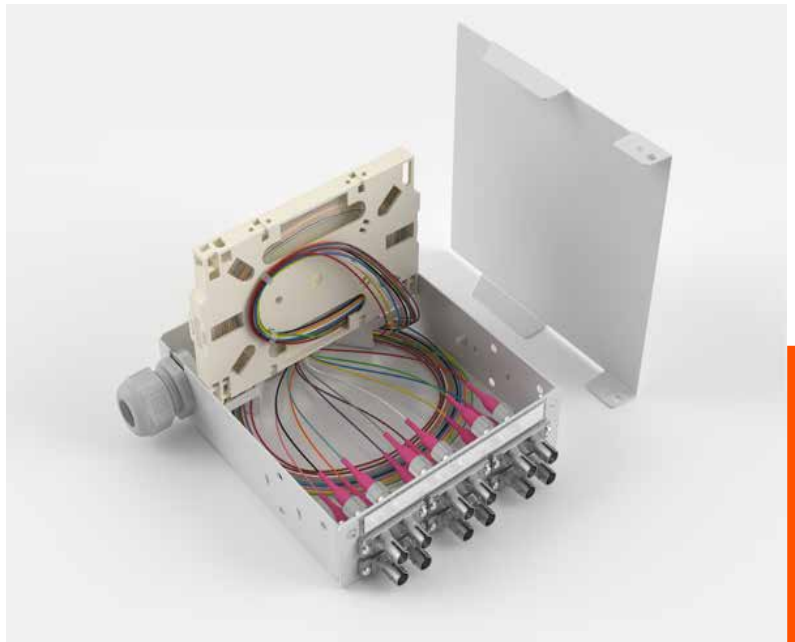


HITRONIC® SBX - INDUSTRIAL SPLICE BOXES

The joining of glass fibres - the so-called splicing - requires a lot of experience and fine motor skills. These splice boxes come with pre-assembled fibre optic pigtailed and fitting adapters.

The splice boxes comply with IP20, the protection class required in control cabinets, temperature range extends from -40°C to +70°C and can be used in a wide variety of applications.

They are available in different versions with six or twelve ST Duplex, LC Duplex, SC Duplex or SC-RJ couplings and in all optical classes (OM1, OM2, OM3, OM4 OS2).



Learn more and explore the full HITRONIC® SBX range at lappastralia.com.au/en/fibre-distribution-boxes



POWERLOCK CONNECTORS

IP67 SINGLE PHASE HIGH POWER LOW VOLTAGE CONNECTORS



Benefits

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

Application range

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

Voltage Rating

- » 1000V

IP Rating

- » IP67

Current Rating

- » 400A

PanelDrains



Part No. PL_PD_RD

PL_PD_WH

PL_PD_BU

PL_PD_BK

PL_PD_GN

AUS Colours Red

White

Blue

Black (Neutral)

Green (Earth)

Included Parts Part number includes housing and contact with M12 stud

PanelSource



Part No. PL_PS_RD

PL_PS_WH

PL_PS_BU

PL_PS_BK

PL_PS_GN

AUS Colours Red

White

Blue

Black (Neutral)

Green (Earth)

Included Parts Part number includes housing and contact with M12 stud

Line Drain



Part No. PL_LD_RD

PL_LD_WH

PL_LD_BU

PL_LD_BK

PL_LD_GN

AUS Colours Red

White

Blue

Black (Neutral)

Green (Earth)

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

Line Source



Part No. PL_LS_RD

PL_LS_WH

PL_LS_BU

PL_LS_BK

PL_LS_GN

AUS 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



DISCONNECTION TOOL



REDUCTION KIT



PROTECTION CAPS LINE



PROTECTION CAPS PANEL

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

EPIC® HA 3+E & 4+E POLE SERIES

IP65 CONNECTORS FOR STANDARD INDUSTRIAL SENSORS



MULTI-POLE INSERTS



METAL HOODS



METAL BASES & COUPLERS

Part No.	Type	Poles	Rating	Thread	Grey Nylon Gland	Grey Spiral Gland	Metal Gland
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							
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
10422500	Panel Mount						

EPIC® HB 6+E POLE SERIES - SINGLE LEVER

IP65 CONNECTORS FOR STANDARD INDUSTRIAL SENSORS



MULTI-POLE INSERTS



METAL HOODS



METAL BASES & COUPLERS

Part No.	Type	Poles	Rating	Thread	Grey Nylon Gland	Grey Spiral Gland	Metal Gland
Multi-Pole Inserts							
10190000	Male Insert Wire Protection	6 + earth	500V / 16A				
10191000	Female Insert Wire Protection	6 + earth	500V / 16A				
10190100	Male Insert	6 + earth	500V / 16A				
10191100	Female Insert	6 + earth	500V / 16A				
10170000	Male Insert - High Current	6 + earth	500V / 35A				
10171000	Female Insert - High Current	6 + earth	500V / 35A				
Metal Hoods							
10021000	Straight - Double Stud			PG16	53015040	53015640	52015740
19021000	Straight - Double Stud			M25	53111030	53111630	53112030
19012000	90 Degree - Double Stud			M20	53111020	53111620	53112020
19022000	90 Degree - Double Stud			M25	53111030	53111630	53112030
Metal Bases & Couplers							
10024000	Couple Hood Straight - Single Lever			PG16	53015040	53015640	52015740
19014000	Couple Hood Straight - Single Lever			M20	53111020	53111620	53112020
19005000	Box Mount - Single Lever			M20	53111020	53111620	53112020
10003000	Panel Mount - Single Lever						
10004000	Panel Mount - Single Lever + Cover						

EPIC® HB 10+E POLE SERIES - SINGLE & DOUBLE LEVER

IP65 CONNECTORS FOR STANDARD INDUSTRIAL SENSORS



MULTI-POLE INSERTS



METAL HOODS



METAL BASES & COUPLERS

Part No.	Type	Poles	Rating	Thread	Grey Nylon Gland	Grey Spiral Gland	Metal Gland
Multi-Pole Inserts							
10192000	Male Insert Wire Protection	10 + earth	500V / 16A				
10193000	Female Insert Wire Protection	10 + earth	500V / 16A				
10192100	Male Insert	10 + earth	500V / 16A				
10193100	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
19042100	90 Degree - 4 Stud			M25	53111030	53111630	53112030
10040700	Straight - 2 Stud			PG21	53015050	53015650	52015750

EPIC® HB 10+E CONTINUED

Part No.	Type	Poles	Rating	Thread	Grey Nylon Gland	Grey Spiral Gland	Metal Gland
Metal Bases & Couplers							
10046000	Straight - Double Lever			PG16	53015040	53015640	52015740
70040400	Straight High - Double Lever			PG21	53015050	53015650	52015750
10049000	Replacement Levers - Double						
10032000	Panel Mount - Double Lever						
10032900	Panel Mount - Single Lever						
10033900	Panel Mount - Single Lever + Cover						
10048700	Protective Cover With Loop						

EPIC® HB 16+E POLE SERIES - SINGLE LEVER

IP65 CONNECTORS FOR STANDARD INDUSTRIAL SENSORS



MULTI-POLE INSERTS



METAL HOODS



METAL BASES & COUPLERS

Part No.	Type	Poles	Rating	Thread	Grey Nylon Gland	Grey Spiral Gland	Metal Gland
Multi-Pole Inserts							
10194000	Male Insert Wire Protection	16 + earth	500V / 16A				
10195000	Female Insert Wire Protection	16 + earth	500V / 16A				
10194100	Male Insert	16 + earth	500V / 16A				
10195100	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						
10072000	Panel Mount - Double Lever						
10073000	Panel Mount - Double Lever + Cover						
10074900	Box Mount - Single Lever			PG21	53015050	53015650	52015750
10086900	Couple Hood Straight - Single Lever			PG21	53015050	53015650	52015750

EPIC® HB 24+E POLE SERIES - SINGLE & DOUBLE LEVER

IP65 CONNECTORS FOR STANDARD INDUSTRIAL SENSORS



MULTI-POLE INSERTS



METAL HOODS



METAL BASES & COUPLERS

Part No.	Type	Poles	Rating	Thread	Grey Nylon Gland	Grey Spiral Gland	Metal Gland
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
10121000	Straight - 4 Stud			PG21	53015050	53015650	52015750
10127000	Straight - Double Lever			PG21	53015050	53015650	52015750
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						
10103000	Panel Mount - Double Lever + Cover						
19104900	Surface Mount - Single Lever			M25	53111030	53111630	53112030
10102000	Surface Mount - Double Lever						
10127900	Couple Hood Straight - Single Lever			PG21	53015050	53015650	52015750
10118700	Protective Cover With Loop						



EPIC® M23 ENCODER IP68 CONNECTORS FOR ENCODERS



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

Current Rating

7A

Voltage Rating

100V

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



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



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

IP Rating

- » IP68

Current Rating

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



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



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

UNITRONIC® M12 FIELD WIREABLE CONNECTORS

SCREW TERMINAL SERIES



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	22260995		22260641	
	4 Pole	A		6mm	22260649	22260647	22260640	22260636
	5 Pole	A		6mm	22260129	22260130	22260127	22260128
Shielded	8 Pole	A		6mm	22260652		22260645	
	5 Pole	A	Shielded	8mm	22260135	22262108	22260136	22262109
	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	

SKINTOP®

ECOLAB® approved
glands for food
& beverage



 lappaustralia.com.au

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.

Available online at lappaustralia.com.au

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



SKINTOP® NYLON CABLE GLANDS

THREADED NYLON GLANDS FOR USE IN CONTROL CABINETS



Construction

» Special Polyamide (nylon plastic) for harsh applications

Temperature Rating

» Static: -40°C to 100°C
» Cable Moving: -20°C to 10°C

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



Construction

» Special Polyamide (nylon plastic) for harsh applications

Temperature Rating

» Static: -40°C to 100°C
» Cable Moving: -20°C to 10°C

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® BRASS CABLE GLANDS

METAL GLANDS FOR TOUGH ENVIRONMENTS



Construction

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

Protection

» IP68 - 10 bar

Temperature Rating

» -30°C to 100°C



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



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
52104320	M50	M40
52104322	M63	M50
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



Construction (Metal)

» Nickel plated brass

Construction (Nylon)

Glass-fibre reinforced nylon

Temperature Rating (Metal)

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

Temperature Rating (Nylon)

» -40°C to 100°C

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

SKINTOP® LOCATOR

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



Application range

Wherever you need to drill the hole for a cable gland: Small and medium producer of control cabinets, Electric installer. For quick allocation of cable and conduit glands, suitable for metric cable glands. Use the kit just for steel enclosure walls.

Benefits

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

Product Make-up

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

Note

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



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



SKINTOP® EMC - METRIC THREAD

EMC CABLE GLAND FOR VSD DRIVES



Construction

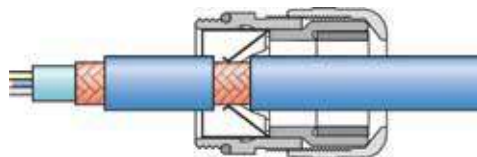
- » Nickel plated brass with a special Polyamide (nylon plastic) insert.

Protection

- » IP68 - 5 bar

Temperature Rating

- » -30°C to 100°C



Size	Clamping Range	Thread Length	Packet Size	Gland	Standard Locknut	Spike Locknut
Standard Thread						
M12	3.5 to 7mm	6.5	50	53112610	52103000	52103300
M16	4.5 to 9mm	7	50	53112620	52103010	52103310
M20	7 to 12.5mm	8	25	53112630	52103020	52103320
M25	9 to 16.5mm	8	25	53112640	52103030	52103330
M32	11 to 21mm	9	25	53112650	52103040	52103340
M40	19 to 28mm	9	10	53112660	52103050	52103350
M50	27 to 35mm	10	5	53112670	52103060	52103360
Extra Long Thread						
M20	7 to 12.5mm	12	25	53112635	52103020	52103320
M25	9 to 16.5mm	12	25	53112645	52103030	52103330
M32	11 to 21mm	15	25	53112655	52103040	52103340
M40	19 to 28mm	15	10	53112665	52103050	52103350
M50	27 to 35mm	15	5	53112675	52103060	52103360

SKINTOP® MS-M BRUSH

EMC CABLE GLAND FOR VSD DRIVES

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°C to 100°C
- » Fixed: -40°C to 100°C



Size	Clamping Range	Thread Length	Packet Size	Gland	Standard Locknut	Spike Locknut
Standard Thread						
M25	9 to 17mm	8	10	53112676	52103030	52103330
M32	11 to 21mm	9	5	53112677	52103040	52103340
M40	19 to 28mm	9	5	53112678	52103050	52103350
M50	27 to 35mm	10	5	53112679	52103060	52103360
M63	34 to 45mm	15	1	53112680	52103070	52103370
M63 Plus	44 to 55mm	15	1	53112681	52103070	52103370

SKINTOP® BRUSH - ADD ON

CONVERT ANY SKINTOP GLAND INTO A VSD GLAND

Construction

- » Nickel plated brass housing with brass brush.

Protection

- » IP rating based on gland used

Temperature Rating

- » -70°C to 200°C



Size	Thread Length	Minimum Diameter (Shield)	Packet Size	Brush Locknut
M16	10	5 mm	25	54110840
M20	10	5 mm	10	54110841
M25	10	5 mm	10	54110842
M32	12	8 mm	10	54110843
M40	12	10 mm	5	54110844
M50	12	14 mm	5	54110845

SKINTOP® INOX / INOX-R

COMPACT, CORROSION & SEA WATER-RESISTANT S/S CABLE GLAND W/SMOOTH SURFACES



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



Size	Clamping Range	Overall Length	Thread Length	Packet Size	Gland	Locknut
INOX - Standard Seal Insert						
M12 x 1.5	4 to 7mm	29.3mm	6.5mm	5	53806739	52032585
M16 x 1.5	6 to 10mm	32.4mm	7mm	5	53806740	52032615
M20 x 1.5	7 to 13mm	35.8mm	8mm	5	53806741	52032625
M25 x 1.5	9 to 17mm	37.8mm	8mm	5	53806742	52032635
M32 x 1.5	11 to 21mm	43.3mm	9mm	5	53806743	52032645
M40 x 1.5	19 to 28mm	51.2mm	9mm	5	53806744	52032655
M50 x 1.5	27 to 35mm	56.2mm	10mm	5	53806745	52032665
INOX-R - Reducing Seal Insert						
M12 x 1.5	3 to 5mm	29.3mm	6.5mm	5	53806749	52032585
M32 x 1.5	7 to 15mm	43.3mm	9mm	5	53806753	52032645
M40 x 1.5	15 to 23mm	51.2mm	9mm	5	53806754	52032655

SKINTOP® HYGIENIC / HYGIENIC-R

RESISTANT S/S CABLE GLAND WITH SMOOTH SURFACES FOR USE IN PRODUCT ZONE



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



Size	Clamping Range	Overall Length	Thread Length	Packet Size	Gland	Locknut
Hygienic - Standard Seal Insert						
M12 x 1.5	4 to 6mm	38.4mm	6.5mm	5	53105100	52032585
M16 x 1.5	6.5 to 9mm	43.4mm	7mm	5	53105110	52032615
M20 x 1.5	9 to 12mm	46.4mm	8mm	5	53105120	52032625
M25 x 1.5	11.5 to 15.5mm	48.9mm	8mm	5	53105130	52032635
Hygienic-R - Reducing Seal Insert						
M12 x 1.5	3 to 4.5mm	38.4mm	6.5mm	5	53105200	52032585
M16 x 1.5	4.5 to 7mm	43.4mm	7mm	5	53105210	52032615
M20 x 1.5	7 to 10mm	46.4mm	8mm	5	53105220	52032625
M25 x 1.5	9 to 12.5mm	48.9mm	8mm	5	53105230	52032635

SKINTOP® FLAT

METAL CABLE GLAND WITH SEALING INSERT FOR FLAT CABLE



Size	Clamping Range	Overall Length	Thread Length	Packet Size	Gland	Locknut
Metric Thread						
M25	11 to 16mm	37.5mm	8mm	5	53119375	52103030
M32	15 to 20mm	42.2mm	9mm	5	53119376	52103040
M40	18 to 28mm	49.5mm	9mm	5	53119377	52103050
M50	26 to 33mm	52mm	10mm	5	53119378	52103060



SKINTOP® SVF-M METAL FLAT GLANDS

METRIC AND PG METAL CABLE GLANDS FOR FLAT CABLE



Size	Clamping Range	Overall Length	Thread Length	Packet Size	Gland	Locknut
Metric Thread						
M20	- / 15mm	27mm	6mm	25	52107320	52103020
M25	9 to 20mm	30.5mm	7mm	25	52107340	52103030
M32	14 to 27mm	32mm	8mm	10	52107350	52103040
M40	24 to 34mm	35mm	8mm	10	52107360	52103050
M50	29 to 44mm	40mm	9mm	5	52107370	52103060
M63	34 to 50mm	42mm	10mm	5	52107380	52103070
PG Thread						
PG16	- / 16mm	27.5mm	6.5mm	25	52005480	52003530
PG21	9 to 21mm	30mm	7mm	25	52005490	52003540
PG29	14 to 30mm	31.5mm	8mm	10	52005500	52003550
PG36	24 to 40mm	36mm	9mm	10	52005510	52003560
PG42	29 to 45mm	40mm	10mm	5	52005520	52003570
PG48	34 to 50mm	41.5mm	10mm	5	52005530	52003580



SKINTOP® SVFK-M NYLON FLAT GLANDS

METRIC AND PG NYLON CABLE GLANDS FOR FLAT CABLE



Size	Clamping Range	Overall Length	Thread Length	Packet Size	Gland	Locknut
Metric Thread						
M25	- / 15mm	41mm	11mm	25	52107900	53119033
M32	10 to 21mm	39mm	10mm	25	52107901	53119043
M40	16 to 28mm	44mm	11mm	25	52107902	53119053
M50	26 to 35mm	50.5mm	11mm	5	52107903	53119063
M50	30 to 40mm	53.5mm	11mm	5	52107904	53119063
M63	36 to 45mm	54.5mm	11mm	5	52107905	53119073
PG Thread						
PG16	- / 15mm	39.5mm	10mm	25	52005470	52000150
PG21	10 to 20.5mm	43mm	11mm	25	52005680	52000160
PG29	15 to 27mm	45mm	11mm	25	52005690	52000170
PG36	25 to 34mm	51mm	13mm	10	52005700	52000180
PG42	30 to 40mm	54mm	13mm	5	52005710	52000190
PG48	35 to 45mm	55mm	15mm	5	52005720	52000200



SKINTOP® FL

FLAT STEEL CABLE GLAND WITH INTERNAL CONICAL CONTOUR



Cable flange can be used universally mainly for large flat cables.

Part No.	Size	Cable pass length x width in mm	L x W x H (mm)	Pieces
52008010	FL1	70 x 12 + 63 x 7	45.0 x 35.0 x 95.0	1
52008020	FL2	49 x 4.5	45.0 x 35.0 x 95.0	1
52008030	FL3	49 x 4.5 + 49 x 4.5 (49 x 11.5)	45.0 x 35.0 x 95.0	1
52008040	FL4	63 x 12.0 (+0.2)	45.0 x 35.0 x 95.0	1
52008050	FL5	70 x 12	45.0 x 35.0 x 95.0	1



SKINTOP® K-M/KR-M ATEX PLUS

BLACK METRIC PLASTIC CABLE GLAND W/HIGH DEGREE OF PROTECTION & EXPLOSION-PROOF



Size	Clamping Range	Overall Length	Thread Length	Packet Size	Gland	Locknut
K-M ATEX Plus - Standard Seal Insert						
M12	3 to 5.5mm	30mm	8mm	50	54115200	53119100
M16	7 to 9mm	34mm	8mm	50	54115210	53119110
M20	7 to 13mm	38mm	9mm	50	54115220	53119120
M25	11 to 17mm	40mm	10mm	25	54115230	53119130
M32	12 to 21mm	47mm	10mm	25	54115240	53119140
M40	19 to 28mm	52mm	10mm	10	54115250	53119150
M50	27 to 35mm	62mm	12mm	5	54115260	53119160
M63	37 to 45mm	71mm	12mm	5	54115270	53119170
KR-M ATEX Plus - Reducing Seal Insert						
M12	2 to 4mm	30mm	8mm	50	54115205	53119100
M16	4 to 6mm	34mm	8mm	50	54115215	53119110
M20	5 to 10mm	38mm	9mm	50	54115225	53119120
M25	6 to 13mm	40mm	10mm	25	54115235	53119130
M32	9 to 15mm	47mm	10mm	25	54115245	53119140
M40	16 to 23mm	52mm	10mm	10	54115255	53119150
M50	22 to 29mm	62mm	12mm	5	54115265	53119160
M63	29 to 39mm	71mm	12mm	5	54115275	53119170



SKINTOP® K-M/KR-M ATEX PLUS BLUE

BLUE METRIC PLASTIC CABLE GLAND W/HIGH DEGREE OF PROTECTION & EXPLOSION-PROOF



Size	Clamping Range	Overall Length	Thread Length	Packet Size	Gland	Locknut
K-M ATEX Plus Blue - Standard Seal Insert						
M12	3 to 5.5mm	30mm	8mm	50	54115400	53119100
M16	7 to 9mm	34mm	8mm	50	54115410	53119110
M20	7 to 13mm	38mm	9mm	50	54115420	53119120
M25	11 to 17mm	40mm	10mm	25	54115430	53119130
M32	12 to 21mm	47mm	10mm	25	54115440	53119140
M40	19 to 28mm	52mm	10mm	10	54115450	53119150
M50	27 to 35mm	62mm	12mm	5	54115460	53119160
M63	37 to 45mm	71mm	12mm	5	54115470	53119170
KR-M ATEX Plus Blue - Reducing Seal Insert						
M12	2 to 4mm	30mm	8mm	50	54115405	53119100
M16	4 to 6mm	34mm	8mm	50	54115415	53119110
M20	5 to 10mm	38mm	9mm	50	54115425	53119120
M25	6 to 13mm	40mm	10mm	25	54115435	53119130
M32	9 to 15mm	47mm	10mm	25	54115445	53119140
M40	16 to 23mm	52mm	10mm	10	54115455	53119150
M50	22 to 29mm	62mm	12mm	5	54115465	53119160
M63	29 to 39mm	71mm	12mm	5	54115475	53119170



SKINTOP® MS-M / XL ATEX

ANTI-STATIC BRASS GLAND W/COLD IMPACT RESIST & MAX RELIABILITY, EXPLOSION-PROOF



Size	Clamping Range	Overall Length	Thread Length	Packet Size	Gland	Locknut
MS-M ATEX - Standard Seal Insert						
M12	3 to 7mm	26.5mm	6.5mm	100	53112700	52103000
M16	4.5 to 10mm	33mm	7mm	100	53112710	52103010
M20	7 to 13mm	37mm	8.5mm	50	53112720	52103020
M25	9 to 17mm	38.5mm	8mm	25	53112730	52103030
M32	11 to 21mm	45.5mm	9mm	25	53112740	52103040
M40	19 to 28mm	48mm	9mm	10	53112750	52103050
M50	26 to 35mm	55.5mm	10mm	5	53112760	52103060
M63	34 to 45mm	67mm	15mm	5	53112770	52103070
M63 Plus	44 to 55mm	65.5mm	15mm	1	53112779	52103070
MS-M-XL ATEX - Extended Thread						
M12	3 to 7mm	26mm	12mm	100	53112800	52103000
M16	4.5 to 10mm	33mm	12mm	100	53112810	52103010
M20	7 to 13mm	37mm	12mm	50	53112820	52103020
M25	9 to 17mm	38.5mm	12mm	25	53112830	52103030
M32	11 to 21mm	45.5mm	15mm	25	53112840	52103040
M40	19 to 28mm	48mm	15mm	10	53112850	52103050
M50	26 to 35mm	55.5mm	15mm	5	53112860	52103060



SKINTOP® DIX MULTI-INSERTS

GLAND INSERTS WITH MULTIPLE CABLE HOLES



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
53100004	4mm	9mm
53100005	5mm	11mm
53100006	6mm	14mm
53100007	7mm	14mm
53100008	8mm	14mm
53100009	9mm	14mm



STANDARD DIX INSERTS FOR MULTIPLE CABLES



SPECIAL AS-I INSERT FOR FLAT CABLE (M20)



STANDARD INSERTS FOR RJ45 ETHERNET CABLE (M25)



SOLID RUBBER FOR SEALING OFF GLANDS



SEALING PINS

SKINTOP® MULTI-M

COMPACT, ROUND MULTI CABLE BUSHING SYSTEM WITH INNOVATIVE GEL TECHNOLOGY



Part No.	Item	Clamping Range	Number of cables	Packet Size
52220111	SKINTOP MULTI-M M50x1.5 18	18	18 x 2-6 mm	1
52220112	SKINTOP MULTI-M M63x1.5 30	30	30 x 2-6 mm	1



SKINTOP® MULTI

COMPACT MULTI CABLE BUSHING SYSTEM WITH INNOVATIVE GEL TECHNOLOGY



52220065



52220073



52220080



52220085

Part No.	Item	Clamping Range	Number of cables	Packet Size
52220065	SKINTOP MULTI Version 1	22	16 x 3-7 mm, 6 x 8-12 mm	1
52220073	SKINTOP MULTI Version 2	21	5 x 2-6 mm, 8 x 4-8 mm, 3 x 5-9 mm, 2 x 8-12 mm, 1 x 12-16 mm, 2 x AS-I BUS / 2 x 2-4 mm	1
52220080	SKINTOP MULTI Version 3	30	30 x 2-6 mm	1
52220085	SKINTOP MULTI Version 4	11	8 x 8-12 mm, 2 x 12-16 mm, 1 x 16-20 mm	1

SKINTOP® CUBE MULTI

CABLE BUSHING SYSTEM FOR INSTALLATION OF NON-HARNESSED CABLES



Part No.	Item	Max. Number of cables	Number of cables x cable size	Packet Size
SKINTOP Cube Multi Gel Modules				
52220050	SKINTOP CUBE MULTI Version 1	21	9 x 3-6 mm; 9 x 6-9 mm; 2 x 9-13 mm; 1 x 13-16 mm	1
52220053	SKINTOP CUBE MULTI Version 2	23	23 x 5-8 mm	1
SKINTOP Cube Multi Gel Modules with Frame				
52220056	SKINTOP CUBE MULTI Version 1 incl. frame	21	9 x 3-6 mm; 9 x 6-9 mm; 2 x 9-13 mm; 1 x 13-16 mm	1
52220057	SKINTOP CUBE MULTI Version 2 incl. frame	23	23 x 5-8 mm	1
52220057	SKINTOP CUBE MULTI Version 2 incl. frame	23	23 x 5-8 mm	1



SKINTOP® CUBE

CABLE BUSHING SYSTEM W/OIL RESISTANCE & VARIABLE CLAMPING RANGE FORCE



FRAMES



MODULES



BRUSH KIT

Part No.	Item	Clamping Range	Number of cables	Packet Size
SKINTOP® Cube Frames				
52220000	SKINTOP® CUBE FRAME 16		8	1
52220001	SKINTOP® CUBE FRAME 24		10	1
SKINTOP® Cube Modules				
52220002	SKINTOP® CUBE MODULE 20X20 small	4 to 6mm		5
52220003	SKINTOP® CUBE MODULE 20x20 large	6 to 9mm		5
52220004	SKINTOP® CUBE MODULE 20x20 blind	1 to 3mm		5
52220005	SKINTOP® CUBE MODULE 40x40 small	9 to 12mm		5
52220006	SKINTOP® CUBE MODULE 40x40 large	12 to 16mm		5
52220007	SKINTOP® CUBE MODULE 40x40 blind			5
52220040	SKINTOP® CUBE MODULE 20X20 ASI BUS			5
SKINTOP® Cube EMC Kit with Brush Technology				
52220089	SKINTOP® BRUSH ADD-ON 24		Dimensions: 40x120mm	1

PCE

CEE FORM Plugs & Sockets

MADE IN AUSTRIA

All ranges come in a variety of combinations:

16A / 32A / 64A / 125A

3/4/5/7 Poles

IP44 or IP67 models

Angled versions available

Wall-mount versions available



A CONNECTION MEANT TO LAST



STANDARD CEE FORM CONNECTORS

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



CONTAINER PLUGS & SOCKETS

Reefer-Container Plugs and Sockets are specially designed to withstand the harsh marine conditions that refrigerated shipping containers are subjected to around harbours, terminals and open sea exposure above water.



CARAVAN PLUGS & SOCKETS

Caravan Plugs and Sockets are perfectly designed for campsites, caravans, motorhomes, marinas and a variety of other harsh outdoor environments.



MIDNIGHT BLACK EVENTS SERIES

Midnight Series Plugs and Sockets with screw terminals are suitable for stage, event, TV and film environments. Featuring a fast and reliable SHARK-type locking system.

CIMCO®, founded in 1827 in Remscheid Germany, is one of the leading tool manufacturers and distributors for the traditional tradesperson. Now managed by the sixth generation, the company has always remained true to its philosophy of making tools which meet the highest possible requirements of professionals.



**Now currently
stocking a large
range of the highest
quality pliers, cutting
tools, crimping tools,
shears, tool cases,
screw punches
and more.**

Check out our E-Shop for more at
lappaustralia.com.au/en/industrial-electric-tools





SILVYN®

ROBUST CABLE PROTECTION AND SUPPLY SYSTEMS

This universal range completely protects cables against dust, moisture and technical, thermal or chemical exposure. The versatile SILVYN® CHAIN range of energy supply chains also protect and guide cables in dynamic applications.

Application Range

- Cable protection hoses and metal or plastic glands suitable for use in a variety of applications.
- Suitable for indoor or outdoor use, under various stresses and in various temperatures.
- Easy to handle, very robust and durable.
- Also halogen-free and available with international licences.

SILVYN® RILL CONDUIT

STRONG FLEXIBLE NYLON CONDUIT



Construction

» PA6 Nylon - Halogen free

Temperature Rating

» Conduit: -40°C to 115°C
» Glands: -30°C to 100°C

Protection

» IP68 - with straight glands
» IP67 - with right angle glands



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® LTP

LIQUID TIGHT BLACK CONDUIT WITH THICK PVC JACKET



Construction

» Galvanised steel, PVC sheath
» Protects against liquids
» High crush-resistance

Temperature Rating

» Conduit: -20°C to 105°C
» Gland: -50°C to 135°C



Conduit



Straight gland



90 degree gland

	16mm	20mm	25mm	32mm	40mm	6mm
Liquid Tight PVC						
Conduit	61805420	61805430	61805440	61805450	61805460	61805470
ID	12.6mm	16mm	21mm	26.5mm	35.4mm	40.4mm
OD	17.8mm	21.1mm	26.4mm	33.1mm	41.8mm	47.9mm
Coil Size	50m	50m	25m	25m	10m	10m
Straight Gland	55510220	55510240	55510250	55510260	55510270	55510280
90 Degree Gland	55510410	55510430	55510440	55510450	55510460	55510470
Locknut (Metal)	52103010	52103020	52103030	52103040	52103050	52103060

SILVYN® SPLIT

PARALLEL CORRUGATED, DIVISIBLE CONDUIT THAT IS QUALIFIED FOR SUBSEQUENT INSTALLATION



Construction

» Polypropylene
» Flexible & crush resistant

Temperature Rating

» Conduit PP: -40°C to +135°C
» Split Gland: -40°C to +120°C



Conduit



Gland



Locknut

	16mm	20mm	25mm	32mm	40mm	6mm
Split Conduit						
Conduit	61806625	61806635	61806645	61806655	61806665	61805470
ID	8.4mm	12.5mm	19.2mm	23.4mm	31mm	40.4mm
OD	13.4mm	18.5mm	25.3mm	30.8mm	41.4mm	47.9mm
Coil Size	50m	50m	50m	50m	25m	10m
Gland (Split)	61806680	61806681	61806682	61806683	61806684	55510280
Locknut (Nylon Split)	61806686	61806687	61806688	61806689	61806691	55510470

View the full range online at lappastralia.com.au/flexible-cable-conduits



FLEXIMARK®

FLEXIMARK

FLEXIMARK®





















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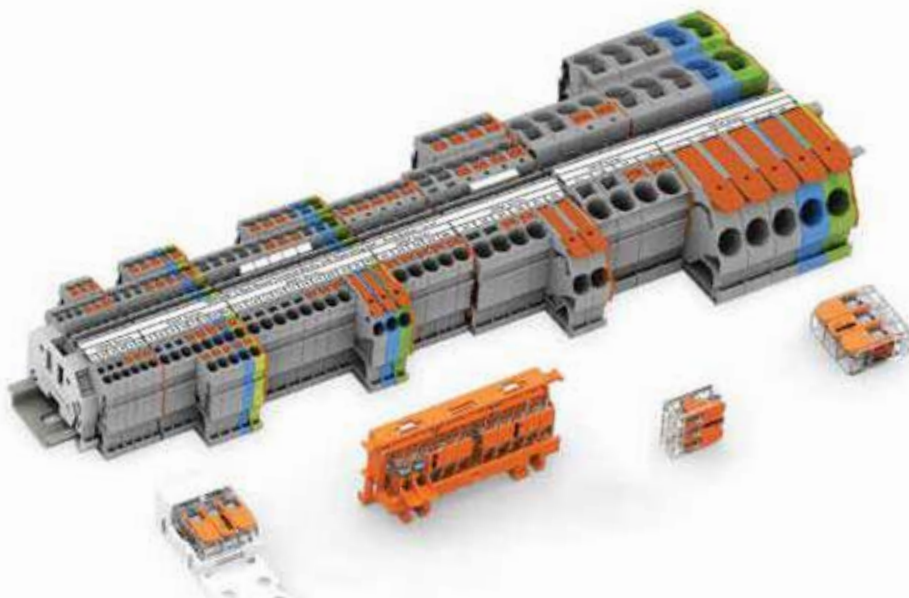
3

FLEXIMARK® MARKING SYSTEMS

RANGE GUIDE

		How?	
		Customised System	Basic System
What?		Your demand – we deliver	Ready made to deliver for each environment
Cable and Wires	After mounting the wire	 <p>Stainless steel FCC</p>  <p>Cablelabel PUR FCC</p>  <p>Cablemarking FCC</p>	 <p>Stainless steel MR and NM</p>  <p>M1011 Manual embossing machine</p>  <p>Marking rings PCM</p>  <p>Marking rings Pliosnap</p>  <p>DYMO® Mobile printer</p> 
	Before mounting the wire	 <p>Organized shrink tube FCC</p>  <p>Flexiprint FCC</p>  <p>Shrink mark FCC</p>	 <p>Bezeichnungsringe PA</p>
	Component	 <p>Stainless steel component marking FCC</p>	 <p>DYMO® Mobile printer</p> 
Accessories	 <p>Character holders and collars</p>  <p>Plier FL52ERA</p>	 <p>LS steel cable ties</p>  <p>Steel gun HT 338</p>	

THE STRENGTH LIES IN THE CONNECTION



2.5mm Push-in Cage Clamp

2002-1201 – 2-Pole Grey
2002-1301 – 3-Pole Grey
2002-1401 – 4-Pole Grey

- Available in Grey - Blue - Orange and Green/
Yellow colours.

- Available in push button and lever versions.

End Plates, Separator Plates and Jumper bars (2-10 Pole) available.

4mm Push-in Cage Clamp

2004-1201 – 2-Pole Grey
2004-1301 – 3-Pole Grey
2004-1401 – 4-Pole Grey

- Available in Grey - Blue - Orange and Green/
Yellow colours.

- Available in push button and lever versions.

End Plates, Separator Plates and Jumper bars (2-10 Pole) available.

6mm Push-in Cage Clamp

2006-1201 – 2-Pole Grey
2006-1301 – 3-Pole Grey
2106-5301 – 3-Pole Grey

- Available in Grey - Blue - Orange and Green/
Yellow colours.

- Available in a lever version.

End Plates, Separator Plates and Jumper bars (2-10 Pole) available.

10mm Push-in Cage Clamp

2010-1201 – 2-Pole Grey
2010-1301 – 3-Pole Grey

- Available in Grey - Blue - Orange and Green/
Yellow colours.

End Plates, Separator Plates and Jumper bars available.

16mm Push-in Cage Clamp

2016-1201 – 2-Pole Grey
2016-1301 – 3-Pole Grey
2116-5301 – 3-Pole Grey

- Available in Grey - Blue - Orange and Green/
Yellow colours.

- Available in a lever version.

End Plates, Separator Plates and Jumper bars available.

Disconnect Push-in Cage Clamp

2002-1971 – 2-Pole Disconnect BlockEnd Plates available

Multideck Push-in Cage Clamp

2002-2201 – 2-Pole Double Deck Grey
2002-3201 – 2-Pole Triple Deck Grey
2002-2401 – 4-Pole Double Grey

- Available in Grey - Blue and Green/
Yellow colours.

End Plates, Separator Plates and Jumper bars (2-10 Pole) available

Fuse Push-in Cage Clamp

2002-1611 – No-LED Grey
2002-1611/1000-541 – 24V-LED Grey
2002-1611/1000-836 – 230V-LED Grey
2002-2611 – No-LED Double Deck Grey
2002-2611/1000-541 – 24V-LED Double Deck Grey
2002-2611/1000-836 – 230V-LED Double Deck Grey

- Mini Fuses, End Plates and Separator Plates available.

Terminal Block Accessories

210-113 – Steel Din Rail 2m
210-112 – Slotted Steel Din Rail 2m
210-196 – Aluminum Steel Din Rail 2m
210-720 – Terminating Screwdriver
210-658 – Angled Screwdriver
210-722 – Screwdriver Set
793-5502 – Terminal Block Marker 1-10
793-5503 – Terminal Block Marker 11-20



4mm Snap Connectors

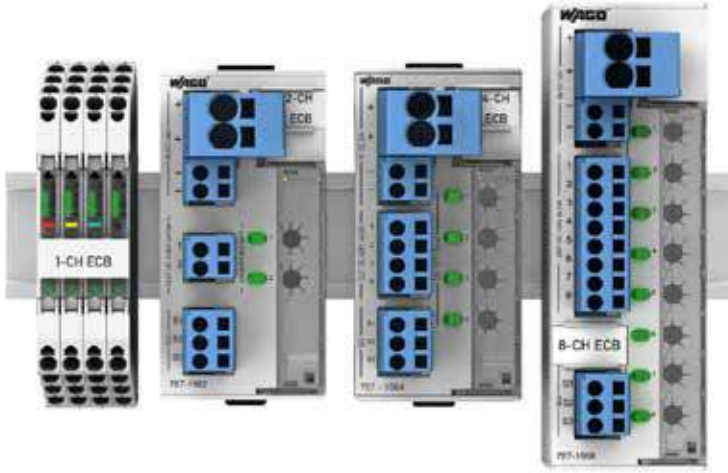
221-412 – 2-Pole
221-413 – 3-Pole
221-415 – 5-Pole
221-500 – DIN Rail Carrier
887-952 – Assorted Box
221-412/4401-100 – 2-Pole Jar 100pcs
221-413/4401-050 – 3-Pole Jar 50pcs
221-415/4401-025 – 5-Pole Jar 25pcs

6mm Snap Connectors

221-612 – 2-Pole
221-613 – 3-Pole
221-615 – 5-Pole
221-510 – DIN Rail Carrier
887-957 – Assorted Box
221-612/4401-050 – 2-Pole Jar 50pcs
221-613/4401-030 – 3-Pole Jar 30pcs
221-615/4401-015 – 5-Pole Jar 15pcs

ELECTRONIC CIRCUIT BREAKERS (ECBS)

A high switch-on capacity is combined with an electronic relay. WAGO's space-saving ECBS come into play when the focus is on both safety and a superior price-performance ratio.



Electronic Circuit Breaker - Multi Channel

- 787-1664 - 4-Channel 10A
- 787-1668 - 8-Channel 10A
- 787-1664/000-080 - 4-Channel w/ IO-Link
- 787-1668/000-080 - 8-Channel w/ IO-Link
- 787-1664/006-1000 - 4-Channel 0.5-6A

Electronic Circuit Breaker - Single Channel

- 787-2861/100-000 - 1A, 24 VDC
- 787-2861/200-000 - 2A, 24 VDC
- 787-2861/400-000 - 4A, 24 VDC
- 787-2861/600-000 - 6A, 24 VDC

WAGO® POWER SUPPLY PRO 2

Wago® Power Supply Pro 2: Control Cabinets are undergoing a transformation because the requirements on them - both quantitative and qualitative - are becoming stricter and stricter. Greater networking, rising energy costs and increasing customization require economy, speed and flexibility in a minimal footprint from control cabinets.

Power Supplies - 1-Phase

- 2787-2144 - 5A, 24, VDC
- 2787-2146 - 10A, 24, VDC
- 2787-2147 - 20A, 24, VDC
- 2787-2448 - 40A, 24, VDC



ECONOMIC BOX

ECONOMIC ENCLOSURE WITH HINGES AND QUICK RELEASE FASTENERS



Benefits

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

Product Features

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

Certifications

- » -40°C to +85°C

Temperature Range

- » UV-resistant

Protection rating

- » IP67

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



SHRINK TUBE PROTECT BOX

BLACK FLEXIBLE UL FLAME RETARDANT THIN WALLED HEAT SHRINK



Application range

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

Product features

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

Benefits

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

Norm references / Approvals

- » UL file no.: E476215

Product features

- » UV-resistant

Note

- » Not resistant against engine oils

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



BASIC CABLE TIES

BASIC CABLE TIES



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		
160mm x 2.5mm	61831003-1000		
200mm x 2.6mm	61831004-1000		
200mm x 3.5mm	61831006-1000		
290mm x 3.5mm		61831007-500	
200mm x 4.8mm			
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		
140mm x 3.5mm	61831045-1000		
160mm x 2.6mm	61831043-1000		
160mm x 4.5mm	61831049-1000		
200mm x 2.6mm	61831044-1000		
200mm x 3.5mm	61831046-1000		
290mm x 3.5mm		61831047-500	
200mm x 4.5mm	61831051-1000		
370mm x 3.5mm			61831053-100
290mm x 4.5mm			61831054-100
360mm x 4.5mm			61831056-100
365mm x 7.5mm			61831062-100
450mm x 7.5mm			61831063-100
540mm x 7.5mm			61831064-100
750mm x 7.5mm			61831065-100



TY-RAP®

WEATHER-PROOF, UV-STABILISED CABLE TIES



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

Product features

Metal blade in head

TY-RAP®

Is a trademark of Thomas&Betts

Approvals

File Number E49405

Description	Dimensions	1000 Pack	500 Pack	100 Pack	50 Pack
TY Black					
TYB 23 MX	92 x 2.3	61723010			
TYB 24 MX	140 x 3.6	61723020			
TYB 25 MX	186 x 4.8	61723030			
TY 26 MX	281 x 3.6	61723040			
TY 27 MX	340 x 7.0		61723050		
TY 28 MX	361 x 4.8	61723060			
TY 234 MX	356 x 2.4				
NDT (Detectable Blue)					
TY523M	93.0 x 2.3			61723351	
TY525M	186 x 4.6			61723352	
TY528M	360 x 4.8			61723353	
TY527M	340 x 6.9				61723354



STAINLESS STEEL TIE TOOL

CABLE TIE TIGHTENING TOOL (INCLUDING CUTTING HEAD)



Application range

For stainless steel cable ties

Benefits

- » Handy processing tool for stainless steel ties (up to 0,3 mm thick)
- » Cable tie is automatically cut at its end once the required tension is achieved
- » Sharp edges are avoided
- » Stripping force can be adjusted in increments

Note

- » Guaranteed up to 2.000 pulls
- » Further spare parts are available
- » Use the adjusting screw to receive a clean cut - the right tension is depending on the type of cable used

Prt No.	Max. cable tie width (mm)	D x V mm	Weight (kg)
83250022	7.9	178 x 140	0.56



COLOUR CODING FOR POWER CABLES

ACCEPTED STANDARDS AS/NZS 3000:2007

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

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



AS/NZS STANDARD

Cores
Application
Earth
Neutral
Phases



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



VDE EUROPEAN STANDARD

Cores
Application
Earth
Neutral
Phases



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



NUMBER CODED

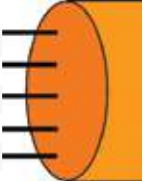
Cores
Application
Earth
Neutral
Phases



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

CROSS-REFERENCE BETWEEN STANDARDS

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



UNITRONIC® DATA CABLE COLOUR CODING

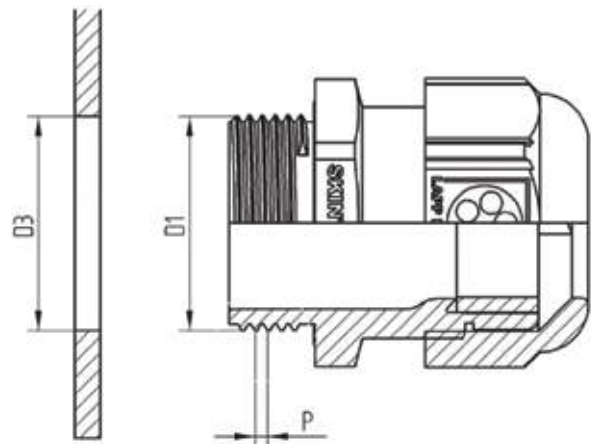
DIN 47100 INTERNATIONAL COLOUR CODING STANDARD

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

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			
Size	Pitch	ø D1	Hole size ø D3
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



AWG TO MM² CONVERSION

CONTROL CABLE WITH UL APPROVALS

AWG	Actual mm ²	Closest Size
1	42.4	50mm ²
2	33.6	35mm ²
4	21.2	25mm ²
6	13.3	16mm ²
8	8.37	10mm ²
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	0.08mm ²



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