

THE WORLD OF LAPP

Photovoltaic Solutions for the North American Market





WELCOME

Please come in and look around. Irrespective of which cable, line, plug and accessory you require for your particular application, you will find exactly what you need here. We have more than 40,000 different standard articles in stock. We also deliver within 24 or 48 hours. Special tasks demand special solutions. In this case too, you need look no further than our company. In addition to the comprehensive range of standard Lapp products, we can also offer you individual cable assemblies and the engineering involved.

You should also be aware of the following: Lapp is one of the leading international system providers. Our brands are used in the most varied of applications, branches and global markets. One of our principles states: when striving for perfection we should rely on no-one but ourselves. This is why we manufacture everything in our own production sites. We also have numerous sales companies and logistics centers around the world, which enable us to be close to our customers. We're somewhere near you too!

To contact your local Lapp Group Representative send an email to: sales@lappusa.com or solutions@lappcanada.com

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Ideas that make the world go round

Since 1957 we have registered more than 100 patents, and we carry a delivery program of more than 40,000 products, which are used wherever electrical energy is used to power, drive, light or control things. Most of this also happens out of sight. For example inside the Cheops pyramid in El Gîza. ÖLFLEX® cables are used there to safeguard smooth operation of the air-conditioning units. We also equipped the K2 base camp at an altitude of 5,000 meters. At -46° Celsius, we also clearly demonstrated that our products work even at the lowest of temperatures.

You will discover Lapp in up to 200 m long paper-making machines and in the 178 m high Singapore Flyer, the world's most spectacular big wheel. We are also on-board the Transrapid train in Shanghai and in navy submarines diving deep below the sea. At the opera house in Beijing we made everyone very happy, and we toured the world recently with the Rolling Stones. We equipped international airports in London, Sofia and Munich with hundreds of kilometers of lines and we are out there listening inside one of the world's largest radio telescopes, well beyond the frontiers of our own solar system.

And we play our part in using sun, wind and other green energy sources more efficiently – in the meantime Lapp is one of the leading partners to companies in the application fields of photovoltaics, wind power, biomass and fuel-cell technology.

In use worldwide

Wherever you wish to realize your photovoltaic project – you can count on the performance of our products. For example, in Bovera, Spain over 5,000 solar modules have been installed over an area of 24,700 m². Here ÖLFLEX® SOLAR cables with a total length of 20 km ensure perfect operation. But we are not only glad to be your partner for big projects, you can also count on us for smaller systems.

Quality Counts

A wealth of characteristics make the components so popular among users: They are not only UV resistant, but also extremely weatherproof and temperature resistant. In a nutshell – the brand products demonstrate their top performance in diverse applications around the world.



Solar products from Lapp – System competence for photovoltaics:

Put your trust in a partner who offers you perfect system competence from a single source for cables, plugs and connectors for photovoltaics. With Lapp brand products you are fully equipped for your individual project if you place importance on excellent quality and services.



Brand products for your solar units:

The following products are used in the solar energy sector:

ÖLFLEX® SOLAR XL Multi



ÖLFLEX® SOLAR XLR 4703



EPIC® SOLAR Module Box



EPIC® SOLAR THIN pre-assembled



Tools



SKINTOP® CLICK/ SKINTOP® CLICK-R



SKINTOP® SLM/SLRM



SKINTOP® DIX



SILVYN® RILL PA 6/ PA 6 SINUS



ÖLFLEX® FORTIS



ÖLFLEX® TRAY II



ÖLFLEX® TC 600



EPIC® SOLAR 4 THIN

Functional reliability and durability are two essential quality criteria for wiring systems in photovoltaics. The SOLAR brand components from Lapp Group are UV resistant, waterproof and temperature resistant. They are used worldwide and ensure durable connections with effective energy transmission in major projects, as well for small solar plants. Super-slim, super-effective, super-durable Backed up by in-depth expertise and decades of experience in the use of cable systems under extreme environmental conditions – heat and cold, as well as mechanical and chemical stresses.

**Zero-resistance cable connection
for super-effective energy transmission.**

Zero-resistance cable connection by virtue of an innovative welded joint

High packing density with a super-flat 12 mm

Conductor cross-sections from 1.5 mm² to 6 mm²

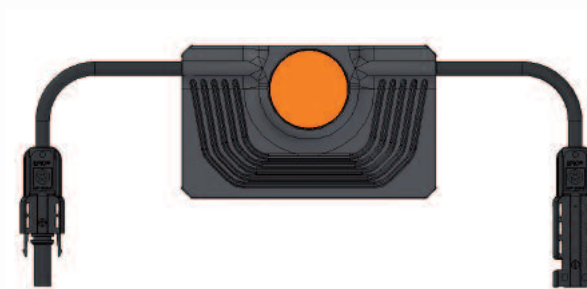


EPIC® SOLAR 4 THIN puts the focus on panel producers' quality requirements:

- No warming of the connector and therefore little aging and durable functional reliability
- Plug and cable preassembled. Every part is tested!
- Development according to international TÜV and UL standards



Module box made to measure!



When it comes to customer-orientation and flexibility, the sun always shines at Lapp Group. For instance, we offer EPIC® SOLAR! connection boxes for weatherproof wiring, also as a customized solution for your solar panels. Just ask us!



ÖLFLEX® SOLAR SOLUTIONS - THE ONLY CHOICE FOR YOUR INSTALLATION

There are many reasons to use enhanced PV or Solar cable constructions rather than the minimum acceptable standards.

For the most part, PV wiring is exposed wiring when use on roof tops and/or solar farms. **PV/Solar cable products utilizing an insulation layer and a separate jacket layer provide enhanced mechanical protection. (Improved protection against accidental damage, abrasion resistance, rodents, etc.)**

PV wiring terminations are typically performed at the installation site with crimp style PV connectors. Typical minimum approved wiring products are not fine stranded, and usually utilize bare copper susceptible to corrosion/oxidation, resulting in higher resistance crimps.

PV/Solar cable products utilizing tinned coated copper and fine stranding provide enhanced long term reliability from corrosion/oxidation and improved crimp connections due to the fine stranding. This results in consistent lower resistance connections and enhanced long term efficiency of the system.

Other considerations include the long term UV or Sunlight resistance of the wiring/cable. Many local testing standards currently do not provide any specific reference to real life service expectations from a UL or Sunlight exposure aspect. **Based on our UV/Sunlight Resistance testing, and our global experience in this market segment, Lapp products are designed for a sunlight service life expectancy of at least 25 years.**

Is your company socially responsible? If not you can help ensure you meet these requirements through the use of Lapp ÖLFLEX® Solar Cables. **ÖLFLEX® Solar cabling products are halogen-free ensuring a 100% environmentally green and safe solution for the entire life cycle of the installation, including decommissioning.**

ÖLFLEX® SOLAR XL multi



Multiple Rated and Cross-Linked Solar Cable for Weather-Proof Wiring of Photovoltaic Systems

ÖLFLEX® SOLAR XL multi is a single conductor, double insulated, cross-linked, halogen-free and flame retardant solar cable for photovoltaic installations, suitable for use in all seasons.

RECOMMENDED APPLICATIONS:

Designed for outdoor connection of individual solar panels and connection of the panels with the inverter

APPLICATION ADVANTAGE:


- Halogen-free and flame retardant
- UV and Ozone resistant
- Weather and abrasion resistant
- Wide temperature range
- Coded version to differentiate between positive & negative
- Suitable for direct burial
- Fine stranding-more flexible- easier routing and installation

ÖLFLEX® SOLAR XL multi Construction:

Finely stranded tinned copper conductors, polyolefin insulation; black halogen-free cross linked polyolefin outer jacket.

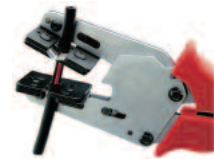


Availability:



Standard put-ups are 500m. Other put ups are available upon request.

EPIC® SOLAR Strip Tool



Part Number	Blade Part Number
21920120	21920122

TECHNICAL DATA:

Minimum Bending Radius for installation:	4 x cable diameter	Conductor Stranding:	Fine Wire per VDE 0295, Class 5 IEC 60228 Cl.5
Temperature Range Fixed Installation:	-40°C to +120°C	Color Code:	Black
Nominal Voltage:	600V (USE-2) 1000V (RWU90)	Approvals:	UL: USE-2 c(UL): RWU90
Test Voltage:	4000V		

Part Number	Conductor Stranding	Nominal Outer Diameter inches	Nominal Outer Diameter mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	Approx. Weight kg/km	Part Number	Conductor Stranding	Nominal Outer Diameter inches	Nominal Outer Diameter mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	Approx. Weight kg/km
Black							Black-Coded						
14 AWG (2.5 mm ²)							14 AWG (2.5 mm ²)						
0026585	50 x 0.26	.220	5.6	16	30	45	0026590	50 x 0.26	.220	5.6	16	30	45
12 AWG (4 mm ²)							12 AWG (4 mm ²)						
0026586	56 x 0.31	.236	6.0	26	48	72	0026591	56 x 0.31	.236	6.0	26	48	72
10 AWG (6 mm ²)							10 AWG (6 mm ²)						
0026587	84 x 0.31	.280	7.1	39	69	102	0026592	84 x 0.31	.280	7.1	39	69	102
8 AWG (10 mm ²)							8 AWG (10 mm ²)						
0026588	80 x .041	.335	8.5	65	107	159	0026593	80 x .041	.335	8.5	65	107	159
6 AWG (16 mm ²)							6 AWG (16 mm ²)						
0026589	128 x .041	.390	9.9	103	166	247	0026594	128 x .041	.390	9.9	103	166	247

ÖLFLEX® SOLAR XLR 4703

UL Listed PV Wire for Photovoltaic Systems



ÖLFLEX® SOLAR XLR 4703 is a single conductor, double insulated, cross-linked, halogen-free and flame retardant solar cable for photovoltaic installations, suitable for use in all seasons.

RECOMMENDED APPLICATIONS:

Designed for outdoor connection of individual solar panels and connection of the panels with the inverter

APPLICATION ADVANTAGE:

- Halogen-free and flame retardant
- UV and Ozone resistant
- Weather resistant
- Wide temperature range
- Abrasion resistant
- Fine stranding, more flexible, easier routing and installation

ÖLFLEX® SOLAR XLR 4703 Construction: (Black)

Finely stranded tinned copper conductors, cross linked copolymer red insulation, black halogen-free cross linked polyolefin outer jacket.




ÖLFLEX® SOLAR XLR 4703 Construction: (Red)

Finely stranded tinned copper conductors, cross linked copolymer red insulation, red halogen-free cross linked polyolefin outer jacket.



Availability:



Standard put-ups are 500m. Other put ups are available upon request.



EPIC® SOLAR Strip Tool



Part Number	Blade Part Number
21920120	21920122

TECHNICAL DATA:

Minimum Bending Radius for installation:	4 x cable diameter	Conductor Stranding:	Fine Wire per VDE 0295, Class 5 IEC 60228 Class 5
Temperature Range Fixed Installation:	-40°C to +90°C	Color Code:	Other colors on available upon request
Rated Voltage:	600V UL	Approvals:	UL 4703 (PV wire) VW-1 UL 1581 NFPA 70 Article 690.31
Test Voltage:	6500V AC		

Part Number	Nominal Outer Diameter		Copper Weight	Approx. Weight		Part Number	Nominal Outer Diameter		Copper Weight	Approx. Weight	
	inches	mm	lbs/mft	lbs/mft	kg/km		inches	mm	lbs/mft	lbs/mft	kg/km
Black Jacket						Red Jacket					
14 AWG (2.5 mm ²)						14 AWG (2.5 mm ²)					
0027130	.232	5.9	16	37	55	0027131	.232	5.9	16	37	55
12 AWG (4 mm ²)						12 AWG (4 mm ²)					
0027133	.248	6.3	26	47	69	0027134	.248	6.3	26	47	69
10 AWG (6 mm ²)						10 AWG (6 mm ²)					
0027136	.272	6.9	39	62	92	0027137	.272	6.9	39	62	92
8 AWG (10 mm ²)						8 AWG (10 mm ²)					
0027139	.350	8.9	65	106	158	0027140	.350	8.9	65	106	158
6 AWG (16 mm ²)						6 AWG (16 mm ²)					
0027142	.402	10.2	103	153	228	0027143	.402	10.2	103	153	228

EPIC® SOLAR 4 Thin

4mm connector system with double hook



BENEFITS:

- Unresistant cable connection for efficient power transmission
- Innovative, patented pending contact system, current leaves the connection cool
- High reliability and longevity by welded bonding
- Extra Thin 12mm for high density packing

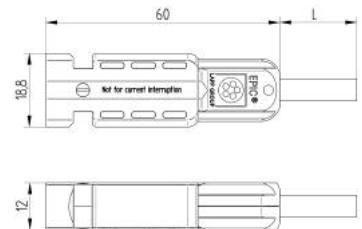
APPLICATION RANGE:

- Pre-assembled connector cables for weather proof cabling of Photovoltaic systems

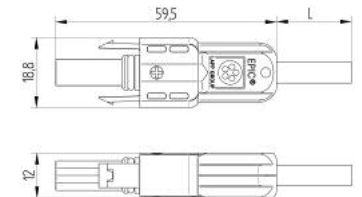
PRODUCT FEATURES:

- 4mm connector system with double hook
- Pre-assembled with 100% automatic control
- Wide range of wire sizes from 1.5mm² up to 6mm²
- TÜV Rheinland and UL/CSA in preparation

EPIC® SOLAR THIN M pre-assembled



EPIC® SOLAR THIN F pre-assembled



TECHNICAL DATA:

	Temperature Range:	-40°C to +105°C
	Rated Voltage:	1000V AC/DC
	Rated Impulse Voltage:	8kV
	Pollution Degree:	3
	Contact Resistance:	<0.2m OHM

	IP Protection:	IP68 (10H/1M)
		Protection Class II
		Cycle of Mechanical Operation 100

Part Number	AWG (mm ²)	Rated Current in A	Length in m	Copper kg/1000 pcs.	Standard Pack Size
EPIC® SOLAR 4 THIN male with cable ÖLFLEX® SOLAR XLR					
44428100	16 AWG (1.5 mm ²)	16	1	14.4	100
44428101	14 AWG (2.5 mm ²)	21	1	24.0	100
44428102	12 AWG (4 mm ²)	24	1	38.4	100
44428103	10 AWG (6 mm ²)	29	1	57.6	100
EPIC® SOLAR 4 THIN male with cable ÖLFLEX® SOLAR XL multi					
44428108	16 AWG (1.5 mm ²)	21	1	24.0	100
44428109	14 AWG (2.5 mm ²)	24	1	38.4	100
44428110	12 AWG (4 mm ²)	29	1	57.6	100
EPIC® SOLAR 4 THIN female with cable ÖLFLEX® SOLAR XLR					
44428104	16 AWG (1.5 mm ²)	16	1	14.4	100
44428105	14 AWG (2.5 mm ²)	21	1	24.0	100
44428106	12 AWG (4 mm ²)	24	1	38.4	100
44428107	10 AWG (6 mm ²)	29	1	57.6	100
EPIC® SOLAR 4 THIN female with cable ÖLFLEX® SOLAR XL multi					
44428111	14 AWG (2.5 mm ²)	21	1	24.0	100
44428112	12 AWG (4 mm ²)	24	1	38.4	100
44428113	10 AWG (6 mm ²)	29	1	57.6	100

EPIC® SOLAR Module Box

Junction Boxes for Weather Proofing Cabling for Photovoltaic Systems



APPLICATION RANGE:


- The Module Box is used to glue on the backside of the solar modules. The ribbon bands are terminated in the Module Box
- For further cabling the pre-assembled solar cables, like EPIC® SOLAR 4 THIN or EPIC® SOLAR are terminated at the Module Box

PRODUCT FEATURES

- EPIC® SOLAR Module Box: Rugged junction boxes for cabling of the solar modules with ÖLFLEX® SOLAR cable
- Dimensions (WxHxD): 118 x 28,5 x 109 mm
- Housing material: PPO/PPS
- CSA/UL: in preparation




TECHNICAL DATA:

 Temperature Range: -40°C to +105°C

 IP Protection:

IP68 (10H/1M)

 Rated Voltage: 1000V AC/DC
Rated Impulse Voltage: 8kV

Protection Class II

Cycle of Mechanical Operation 100

Pollution Degree: 3

Contact Resistance: <0.2m OHM

Part Number	Description	Connection Type	Cross section in mm ²	Cable Clamping range, mm	Length in mm	Standard Pack Size
EPIC® SOLAR Module Box						
44428043	EPIC® SOLAR ST 200 3D	Assembled with 3 bypass diodes	max. 6 mm ²	3.7 - 7.1		100
44428044	EPIC® SOLAR ST 200 6D	Assembled with 6 bypass diodes	max. 6 mm ²	3.7 - 7.1		100
EPIC® SOLAR Module Box with cable and EPIC® plug connector						
44428045	EPIC® SOLAR ST200 XL multi	Pre-assembled with solar cables	12 AWG (4 mm ²)	-	1.0	100
44428046	EPIC® SOLAR ST200 XL multi	Pre-assembled with solar cables	10 AWG (6 mm ²)	-	1.0	100
EPIC® SOLAR Module Box with cable and EPIC® Solar 4 Thin						
44428062	EPIC® SOLAR ST200 4 THIN XLR TF	Pre-assembled with solar cables	12 AWG (4 mm ²)	-	1.0	100
44428063	EPIC® SOLAR ST200 4 THIN XLR TF	Pre-assembled with solar cables	10 AWG (6 mm ²)	-	1.0	100

CABLE ACCESSORIES: TOOLS

Universal Stripping Tool

BENEFITS:

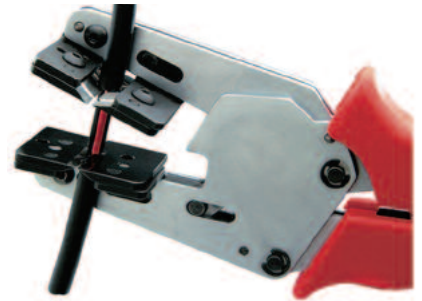
Special stripping tool for high quality dismantling of single cores

PRODUCT SPECIFICATIONS:

Applicable with a great variety of insulations differing in hardness and dimension

TOOL DESIGN:

- Compact construction, easy to handle
- Chrome-plated with plastic handle cover



Part Number	Blade Part Number	Cutting Range Ø AWG (mm)	Standard Pack Size
21920120	21920122	16 AWG to 10 AWG (1.5 - 6 mm)	1

KS-20

BENEFITS:

- Cuts copper and aluminum cables up to 20 mm outer diameter
- Low force due to favorableness transmission ratio and new blade geometry
- Easy, clean cut when operating with one hand

PRODUCT SPECIFICATIONS:

- For single and multi-wire copper and aluminum cables
- Pre and after cut (1st and 2nd blade) allows cables with an external outer diameter up to 20 mm to be cut
- Not suitable for steel wire and hard extruded copper wire



Part Number	For Outer Ø mm	Weight kg	Length in mm	Standard Pack Size
62120045	20	.300	200	1

SKINTOP® CLICK/ CLICK-R

Liquid Tight, Non-Metallic Strain Relief with Quick “Click” Insertion System



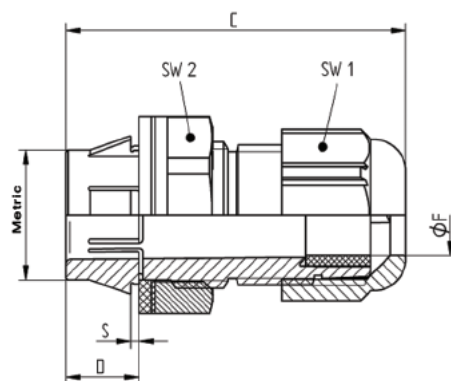
SKINTOP® CLICK is an innovative cable insertion system that provides fast, highly flexible assembly. Easy snap in place installation results in fixed, centered, strain relief with maximum protection in seconds.

RECOMMENDED APPLICATIONS:

Applications where locknut installation is difficult to reach or secure, such as dual wall enclosures and temperature controlled assemblies where insulation is used.

APPLICATION ADVANTAGE:

- Up to 70% installation time savings due to innovative CLICK system
- Ideal for hard to reach dual wall enclosures and limited access spaces
- Reduced inventory as no locknuts are required
- The heavy duty SKINTOP® design provides great pullout strength and very reliable strain relief
- Superior integrated locking mechanism includes an internal ratchet for vibration proof protection



* Includes 1 disassembly tool per pack

TECHNICAL DATA:

Materials:		Color:	Black (RAL 9005), UV Resistant Gray (RAL 7001)
Body:	Special Polyamide		
Seal:	Special Elastomer		
Temperature range:	-20°C to +100°C	Protection:	IP 68, 5 bar

SKINTOP® CLICK: Liquid Tight, Non-Metallic Strain Relief with Metric Threads

Black	Part Number Gray	Thread Type & Size	UL Status	Clamping Range øF inches	SW1/ SW2 Wrenching Flats inches	C Overall Length inches	D Thread Length inches	M Hole inches	S Wall Thickness inches	Standard Pack Size
53112923	53112921	M-12	R	.138 - .276	0.591/ 0.709	1.575	0.315	0.484 (-.008)	.039 - .157	50
53112882	53112876	M-16	R	.197 - .354	0.748/ 0.866	1.654	0.315	0.642 (-.008)	.039 - .157	50
53112883	53112877	M-20	L	.276 - .512	0.984/ 1.063	1.791	0.315	0.799 (-.008)	.039 - .157	25
53112884	53112878	M-25	L	.354 - .669	1.181/ 1.339	1.909	0.315	0.996 (-.008)	.039 - .157	25
53112924	53112922	M-32	L	.433 - .827	1.417/ 1.575	2.165	0.315	1.272 (-.008)	.039 - .157	25

SKINTOP® CLICK-R: Liquid Tight, Non-Metallic Strain Relief with Reducer Bushing & Metric Threads

Black	Part Number Gray	Thread Type & Size	UL Status	Clamping Range øF inches	SW1/ SW2 Wrenching Flats inches	C Overall Length inches	D Thread Length inches	M Hole inches	S Wall Thickness inches	Standard Pack Size
53112929	53112927	M-12	R	.039 - .197	0.591/ 0.709	1.575	0.315	0.484 (-.008)	.039 - .157	50
53112885	53112879	M-16	L	.157 - .276	0.748/ 0.866	1.654	0.315	0.642 (-.008)	.039 - .157	50
53112886	53112880	M-20	L	.197 - .394	0.984/ 1.063	1.791	0.315	0.799 (-.008)	.039 - .157	25
53112887	53112881	M-25	L	.236 - .512	1.181/ 1.339	1.909	0.3150	0.996 (-.008)	.039 - .157	25
53112931	53112928	M-32	R	.276 - .591	1.417/ 1.575	2.165	.315	1.272 (-.008)	.039 - .157	25

UL Status: R = Recognized; L = Listed

SKINTOP® SLM/ SLRM

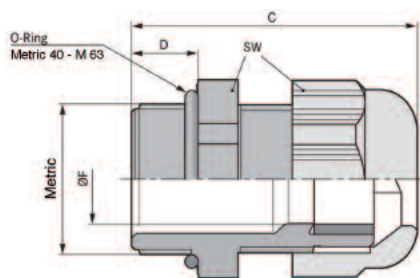
Liquid Tight, Non-Metallic Strain Relief Cable Gland with Metric Threads



SKINTOP® SLM/ SLRM is a durable, liquid tight, easy to assemble strain relief cable gland with Metric threads that is universally suited for all types of machinery & equipment, including automation, motion control, process control and robotics.

APPLICATION ADVANTAGE:

- The heavy duty SKINTOP® design provides great pullout strength and very reliable strain relief
- Superior integrated locking mechanism includes an internal ratchet for vibration proof protection
- Multi-trapezoidal thread requires just one twist to tighten
- Generous high quality neoprene bushing provides a liquid tight and dust proof, hermetic seal
- Economical solution that covers a large clamping range with only 8 sizes



TECHNICAL DATA:



Materials:
Body: Polyamide
Bushing: CR
Locknuts: Included



Protection: 70 PSI
Seal: IP 68, 5 Bar
(Exceeds NEMA 6/ 6P Pressure rating)
IP 69K



Color: - Black (RAL 9005)
UV Resistant
- Gray (RAL 7001)



Temperature range:
Static: -40° C to +100° C
Dynamic: -20° C to +100° C

SKINTOP® SLM: Liquid Tight, Non-Metallic Strain Relief Cable Gland with Metric Threads

Black	Part Number	Gray	Thread Type & Size	UL Status	Clamping Range øF inches	SW Wrenching Flats inches	C Overall Length inches	D Thread Length inches	Standard Pack Size	Weight 100 pcs. lbs.
	S2507	S1507	M-12X1.5	R	0.138 - 0.276	0.591	1.181	.315	100	1.00
	S2509	S1509	M-16X1.5	R	0.177 - 0.394	0.748	1.339	.315	100	1.50
	S2513	S1513	M-20X1.5	L	0.276 - 0.512	0.984	1.457	.354	100	2.50
	S2516	S1516	M-25X1.5	L	0.354 - 0.669	1.181	1.575	.394	50	3.50
	S2521	S1521	M-32X1.5	L	0.433 - 0.827	1.417	1.850	.394	25	6.00
	S2529	S1529	M-40X1.5	L	0.748 - 1.102	1.811	2.047	.394	10	10.50
	S2536	S1536	M-50X1.5	L	1.063 - 1.378	2.165	2.441	.472	5	17.50
	S2542	S1542	M-63X1.5	L	1.339 - 1.772	2.598	2.795	.472	5	25.50

SKINTOP® SLRM: Liquid Tight, Non-Metallic Strain Relief Cable Gland with Reducer Bushing

Black	Part Number	Gray	Thread Type & Size	UL Status	Clamping Range øF inches	SW Wrenching Flats inches	C Overall Length inches	D Thread Length inches	Standard Pack Size	Weight 100 pcs. lbs.
	S2607	S1607	M-12X1.5	R	0.039 - 0.197	0.591	1.181	.315	100	1.00
	S2609	S1609	M-16X1.5	R	0.079 - 0.276	0.748	1.339	.315	100	1.50
	S2613	S1613	M-20X1.5	L	0.197 - 0.394	0.984	1.457	.354	100	2.50
	S2616	S1616	M-25X1.5	L	0.236 - 0.512	1.181	1.575	.394	50	3.50
	S2621	S1621	M-32X1.5	L	0.276 - 0.591	1.417	1.850	.394	25	6.00
	S2629	S1629	M-40X1.5	L	0.591 - 0.906	1.811	2.047	.394	10	10.50
	S2636	S1636	M-50X1.5	L	0.866 - 1.142	2.165	2.441	.472	5	17.50
	S2642	S1642	M-63X1.5	L	1.102 - 1.535	2.598	2.795	.472	5	25.50

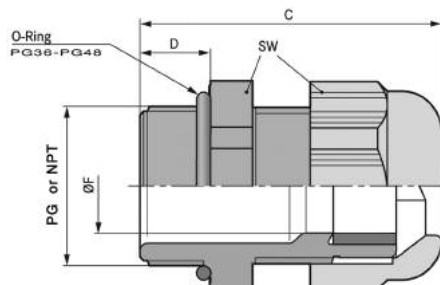
UL Status: R = Recognized; L = Listed

SKINTOP® SLN & SL

Liquid Tight, Vibration Proof, Strain Relief Cable Gland with NPT or PG Threads



PG Only



TECHNICAL DATA:



Materials:
Body: Polyamide
Bushing: CR
Locknuts: Included



Protection: 70 PSI
Seal: IP 68, 5 Bar
(Exceeds NEMA 6/ 6P Pressure rating)
IP 69K



Color:
- Black (RAL 9005)
UV Resistant
- Gray (RAL 7001)



Temperature range:
Static: -40°C to +100°C
Dynamic: -20°C to +100°C

SKINTOP® SLN: NPT Threads

Part Number		Thread Type & Size	UL Status	Clamping Range of inches	SW Wrenching Flats inches	C Overall Length inches	D Thread Length inches	Standard Pack Size	Weight 100 pcs. lbs.
Black	Gray								
S2138	S1138	NPT-3/8"	R	.138 - 0.315	0.748	1.693	.591	100	2.00
S2112	S1112	NPT-1/2"	L	.197 - 0.472	0.945	1.772	.591	100	2.50
S2134	S1134	NPT-3/4"	L	.512 - 0.709	1.299	2.087	.591	50	5.50
S2101	S1101	NPT-1"	L	.748 - 1.000	1.654	2.362	.591	25	9.00

SKINTOP® SL: PG Threads

Part Number		Thread Type & Size	UL Status	Clamping Range of inches	SW Wrenching Flats inches	C Overall Length inches	D Thread Length inches	Standard Pack Size	Weight 100 pcs. lbs.
Black	Gray								
S2107	S1107	PG-7	R	0.098 - 0.256	0.591	1.260	.315	100	1.00
S2109	S1109	PG-9	R	0.138 - 0.315	0.748	1.417	.315	100	1.50
S2111	S1111	PG-11	R	0.157 - 0.394	0.866	1.496	.315	100	2.00
S2113	S1113	PG-13	L	0.236 - 0.472	0.945	1.614	.354	100	2.50
S2116	S1116	PG-16	L	0.354 - 0.551	1.063	1.732	.394	50	3.00
S2121	S1121	PG-21	L	0.512 - 0.709	1.299	1.929	.433	50	5.00
S2129	S1129	PG-29	R	0.551 - 0.984	1.654	2.205	.433	25	8.50
S2136	S1136	PG-36	L	0.945 - 1.260	2.087	2.598	.512	10	17.50
S2142	S1142	PG-42	R	1.378 - 1.496	2.362	2.677	.512	5	24.00
S2148	S1148	PG-48	L	1.535 - 1.732	2.559	2.717	.551	5	29.00



SKINTOP® DIX INSERTS FOR ÖLFLEX® SOLAR XL multi

SKINTOP® DIX Bushing Selection Table for Combiner Box Entrance

LAPP KABEL STUTTGART ÖLFLEX® SOLAR XL multi (UL) USE-2 600V c(UL) RWU 90 1000V SUNLIGHT RESISTANT RoHS

ÖLFLEX® SOLAR XL Multi 10 AWG Part # 0026587 (7.1 mm diameter)

Metric DIX NBR Options					PG & NPT Silicone DIX Bushing Options				
# of Cables	Bushing Size	Metric DIX PN	Metric CLICK	Metric Thread with Locknut	Bushing Size	DIX PN	PG Thread with Locknut	NPT Thread	NPT Locknut
2	-	-	-	-	PG 21 / NPT 1/2"	53621270	-	53800609	911371
2	M32	53332270	53112924	S2521	PG 21 / NPT 3/4"	53621270	S2121	S2134	911372
3	M25	53325370	53112884	S2516	PG 21 / NPT 3/4"	53621370	S2121	S2134	911372
3	M32	53332370	53112924	S2521	-	-	-	-	-
4	M32	53332470	53112924	S2521	PG 29 / NPT 1"	53629470	S2129	S2101	911373
5	-	-	-	-	PG 29 / NPT 1"	53629570	S2129	S2101	911373
6	M40	53340670	-	S2529	-	-	-	-	-
8	M50	53350870	-	S2536	-	-	-	-	-

ÖLFLEX® SOLAR XL Multi 1- AWG Part # 0026586 (6 mm diameter)

Metric DIX NBR Options					PG & NPT Silicone DIX Bushing Options				
# of Cables	Bushing Size	Metric DIX PN	Metric CLICK	Metric Thread with Locknut	Bushing Size	DIX PN	PG Thread with Locknut	NPT Thread	NPT Locknut
2	M20	53320260	53112883	S2513	PG 16	53616260	S2116	-	-
2	M25	53325260	53112884	S2516	-	-	-	-	-
3	M25	53325360	53112884	S2516	PG 16	53616360	S2116	-	-
4	-	-	-	-	PG21/NPT 1/2	53621460	-	53800609	911371
4	M32	53332460	53112924	S2521	PG 21/NPT 3/4	53621460	S2121	S2134	911372
5	M32	53332560	53112924	S2521	-	-	-	-	-
8	M40	53340860	-	S2529	-	-	-	-	-
16	M50	53350166	-	S2536	-	-	-	-	-




Metric DIX



PG/NPT DIX







TECHNICAL DATA:

	Materials:	NBR (Rubber)
	Temperature:	-40°C to +100°C
	Seal:	IP 54 IP 68 when all holes are optimally filled.

Special shapes available on request. Consult factory for details

TECHNICAL DATA:

	Color:	Natural
	Materials:	Silicone
	Temperature:	-30°C to +100°C
	Seal:	IP 54 IP 68 when all holes are optimally filled.

NOTES:

- 1) PG and Metric SKINTOP® cable glands are provided with a locknut.
- 2) If not all of the bushing holes are filled with cables, SKINTOP® DIX DV inserts must be added to achieve IP68.
10 AWG - Lapp PN 53100007
12 AWG - Lapp PN 53100006
- 3) The black DIX NBR bushings are preferred for solar applications as they contain UV stabilizers.

SKINTOP® DIX INSERTS FOR ÖLFLEX® SOLAR XLR 4703

SKINTOP® DIX Bushing Selection Table for Combiner Box Entrance

LAPP KABEL STÜTTGART ÖLFLEX® SOLAR XLR 4703 (UL) PV WIRE 600V VW-1 SUNLIGHT RESISTANT RoHS

LAPP KABEL STÜTTGART ÖLFLEX® SOLAR XLR 4703 (UL) PV WIRE 600V VW-1 SUNLIGHT RESISTANT RoHS

14 AWG (5.9mm) Part # 0027130/0027131 & 12 AWG (6.3mm) Part # 0027133/0027134

Metric DIX NBR Options					PG & NPT Silicone DIX Bushing Options				
# of Cables	Bushing Size	Metric DIX PN	Metric CLICK	Metric Thread with Locknut	Bushing Size	DIX PN	PG Thread with Locknut	NPT Thread	NPT Locknut
2	M20	53320260	53112883	S2513	PG 16	53616260	S2116	-	-
2	M25	53325260	53112884	S2516	-	-	-	-	-
3	M25	53325360	53112884	S2516	PG 16	53616360	S2116	-	-
4	-	-	-	-	PG 21/ NPT 1/2"	53621460	-	53800609	911371
4	M32	53332460	53112924	S2521	PG 21/ NPT 3/4"	53621460	S2121	S2134	911372
5	M32	5332560	53112924	S2521	-	-	-	-	-
8	M40	53340860	-	S2529	-	-	-	-	-
16	M50	53350166	-	S2536	-	-	-	-	-

10 AWG (6.9mm) Part # 0027136/0027137

Metric DIX NBR Options					PG & NPT Silicone DIX Bushing Options				
# of Cables	Bushing Size	Metric DIX PN	Metric CLICK	Metric Thread with Locknut	Bushing Size	DIX PN	PG Thread with Locknut	NPT Thread	NPT Locknut
2	-	-	-	-	PG 21/ NPT 1/2"	53621270	-	53800609	911371
2	M32	53332270	53112924	S2521	PG 21/ NPT 3/4"	53621270	S2121	S2134	911372
3	M25	53325370	53112884	S2516	PG 21/ NPT 3/4"	53621370	S2121	S2134	911372
3	M32	53332370	53112924	S2521	-	-	-	-	-
4	M32	53332470	53112924	S2521	PG 29/ NPT 1"	53629470	S2129	S2101	911373
5	-	-	-	-	PG 29/ NPT 1"	53629570	S2129	S2101	911373
6	M40	53340670	-	S2529	-	-	-	-	-
8	M50	53350870	-	S2536	-	-	-	-	-

8 AWG (8.9mm) Part # 0027139/0027140

Metric DIX NBR Options					PG & NPT Silicone DIX Bushing Options				
# of Cables	Bushing Size	Metric DIX PN	Metric CLICK	Metric Thread with Locknut	Bushing Size	DIX PN	PG Thread with Locknut	NPT Thread	NPT Locknut
2	M32	53332290	53112924	S2521	PG 29/ NPT 1"	53629290	S2129	S2101	911373
2	M40	53340290	-	S2529	-	-	-	-	-
3	-	-	-	-	PG 29/ NPT 1"	53629390	S2129	S2101	911373
4	M40	53340490	-	S2529	PG 29/ NPT 1"	53629490	S2129	S2101	911373
5	M40	53340590	-	S2529	-	-	-	-	-

6 AWG (10.2mm) Part # 0027142/0027143

Metric DIX NBR Options					PG & NPT Silicone DIX Bushing Options				
# of Cables	Bushing Size	Metric DIX PN	Metric CLICK	Metric Thread with Locknut	Bushing Size	DIX PN	PG Thread with Locknut	NPT Thread	NPT Locknut
3	M40	53340310	-	S2529	-	-	-	-	-

NOTES:

- 1) PG and Metric SKINTOP® cable glands are provided with a locknut.
- 2) If not all of the bushing holes are filled with cables, SKINTOP® DIX DV inserts must be added to achieve IP68.
 14 and 12 AWG - Lapp PN 53100006
 10 AWG - Lapp PN 53100007
 8 AWG - Lapp PN 53100008
- 3) The black DIX NBR bushings are preferred for solar applications as they contain UV stabilizers.

SILVYN® RILL PA 6

Non-Metallic Flexible Quick Connect Conduit Systems



The SILVYN® RILL PA 6 is a flexible, non-metallic corrugated conduit suitable for use in various industrial applications. It is resistant to liquids, oils and gases, and highly resistant to acids and solvents.

APPLICATION ADVANTAGES:

- Halogen-free , flame retardant and self-extinguishing
- Durable, long lasting conduit that is rugged yet flexible
- For use in controls, moving machine parts, motor and internal connections, as well as industrial, medical and electrical applications



SILVYN® KLICK-G



SILVYN® KLICK-W

TECHNICAL DATA:



Materials:

Polyamide
Halogen & Silicone Free
UL 94 V0



Color:

Black or Gray



Protection:

IP 68



Temperature range:

-40°C to +115°C

SILVYN® RILL PA 6: Non-Metallic Flexible Conduit

Part Number	Outer Diameter		Inner Diameter		Bend Radius		Conduit Coil Put-Ups Feet	Thread Type & Size for Fittings			
	Black	Gray	inches	mm	inches	mm		NPT	PG	Metric	
61746935	61746939	.394	10.0	.256	6.5	.512	13	164	NPT-1/4"	PG-7	M-10X1.0
61746945	61746940	.512	13.0	.394	10.0	.787	20	164	NPT-1/4"	PG-9	M-12X1.5
61746955	61746950	.622	15.8	.472	12.0	1.378	35	164	NPT-3/8"	PG-11	M-16X1.5
61747015	61747010	.728	18.5	.563	14.3	1.575	40	164	—	PG-13	—
61746965	61746960	.835	21.2	.650	16.5	1.772	45	164	NPT-1/2"	PG-16	M-20X1.5
61746975	61746970	1.122	28.5	.906	23.0	2.165	55	164	NPT-3/4"	PG-21	M-25 X1.5
61746985	61746980	1.358	34.5	1.142	29.0	2.559	65	82	NPT-1"	PG-29	M-32X1.5
61746995	61746990	1.673	42.5	1.417	36.0	3.543	90	82	NPT-1-1/4"	PG-36	M-40X1.5
61747005	61747000	2.146	54.5	1.890	48.0	3.937	100	82	NPT-1-1/2"	PG-48	M-50X1.5




SILVYN® CONDUIT & TOOLS

SILVYN® RILL PA 6 SINUS Polyamide Conduit



SILVYN® COV

TECHNICAL DATA:

 Material:	PA6 heat modified Cadmium free Halogen-free
 Color:	Black, UV Resistant & Weather proof
 Temperature range:	-40°C up to +140°C

Part Number	Inside Diameter mm	Outside Diameter mm	Fitting for Holder SILVYN®	Standard Pack Rings mm
61806550	6.7	10.0	FCL 10/ 55506905	50
61806555	8.4	11.4	-	50
61806560	9.9	13.0	FCL 13/ 55506915	50
61806565	12.2	15.7	FCL 16 / 55506925	50
61806570	16.6	21.2	FCL 21/ 55506935	50
61806575	21.3	25.4	SPLIT COS 20/ 61806710	50
61806580	23.2	28.3	FCL 28/ 5506945	50

Cable Guide Tool- Cable pulling tool for SILVYN® RILL PA 6 SINUS



APPLICATION RANGE:

Cable pull-in tool for SILVYN RILL PA6 SINUS

Part Number	Type	Cable Bundling mm	Standard Pack Rings mm
61830340	STKP 8	6 - 9	1
61830350	STKP 15	10 - 16	1
61830360	STKP 20	17 - 21	1
61830370	STKP 25	21 - 28	1

SILVYN® CC01



BENEFITS:

Proper and safe cutting to length of plastic conduits

APPLICATION RANGE:

Conduit shears for non-metallic conduit, e.g. parallel corrugated protective conduit.

Part Number	Cutting Range ø mm	Standard Pack Size
61722285	0 - 45	1

ÖLFLEX® FORTIS



Flexible & Oil Resistant Tray Cable with UL/CSA
-40°C Flexible/ -55°C Stationary

ÖLFLEX® FORTIS is named after the Latin word meaning “strength”. It offers outstanding mechanical performance, particularly at low temperatures. The specially formulated elastomeric jacket passes UL’s -40°C cold impact and -55°C cold bend test. ÖLFLEX® FORTIS also offers outstanding oil resistance (UL OIL RES I & II) and meets all Tray Cable (UL-1277) and Wind Turbine Tray Cable (UL-2277) requirements.

RECOMMENDED APPLICATIONS:

Wind energy, Machine tool, Forestry equipment, Oil & petrochem equipment, Cold temperature storage & packaging facilities

APPLICATION ADVANTAGES:

- Arctic grade jacket passes UL’s -40°C cold impact test
- Passes UL OIL RES I & II requirements
- Meets all Tray Cable (UL-1277) requirements
- Outstanding mechanical toughness: TC-ER Rated
- Meets all Wind Turbine Tray Cable (UL-2277) requirements
- Meets Torsion Requirements for Wind Turbine Applications
- Copper core is dual rated for North American and European standards 18 AWG (1.0mm²) to 6 AWG (16mm²)

ÖLFLEX® FORTIS CONSTRUCTION:

Finely stranded bare copper conductors; specially blended PVC/nylon insulation; formulated oil resistant and elastomeric polymer alloy black jacket.



TECHNICAL DATA:

Minimum Bend Radius for installation:	5 x cable diameter	Conductor Stranding:	Fine wire per Class 5 (18-16 AWG) Fine Wire per Class K (4 - 2 AWG)
Temperature Range: for stationary use:	-55°C to +105°C (UL 90°C)	Color Code:	Black with white numbers plus grn/yel ground
	for flexible use:	-40°C to +105°C (UL 90°C)	
Nominal Voltage:	600V - TC 1000V- Wind Turbine Tray Cable (WTTC)	Approvals:	UL: - Type TC-ER (Exposed Run), UL WTTC - Type MTW or UL AWM, NFPA 79 2007 - Oil Res I/II - Class 1, Div. 2 per NEC Art. 336, 392, 501 CSA: - c(UL) Type TC and CIC FT4 -40°C - CSA-AWM I/II A/B FT4 -40°C

Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km
18 AWG (19/30) 1.00 mm ²							331409						
331803	3	.297	7.5	19	57	85	331412	9	.571	4.5	135	225	335
331804	4	.320	8.1	25	66	98	331418	12	.636	16.2	179	308	459
331805	5	.346	8.8	31	77	115	331425	18	.737	18.7	269	439	654
331807	7	.373	9.5	44	100	149	12 AWG (56/.0117) 4 mm ²						
331809	9	.429	10.9	56	112	167	331204	4	.460	11.7	100	152	226
331812	12	.477	12.1	75	171	255	331205	5	.503	12.8	125	187	279
331818	18	.587	14.9	113	245	365	331207	7	.581	14.8	176	258	384
331825	25	.677	17.2	156	322	479	10 AWG (82/.0117) 6 mm ²						
16 AWG (28/30) 1.50 mm ²							331003						
331603	3	.325	8.3	27	69	103	331004	3	.500	12.7	110	222	330
331604	4	.351	8.9	36	83	124	331005	4	.578	14.7	147	265	394
331605	5	.381	9.7	45	98	146	331007	5	.631	16.0	184	317	472
331607	7	.412	10.5	64	127	189	8 AWG (74/.0159) 10 mm ²						
331609	9	.476	12.1	82	171	255	330804	4	.703	17.9	245	412	615
331612	12	.565	14.4	109	220	328	330805	5	.772	19.6	306	518	771
331616	16	.621	15.8	145	271	403	6 AWG (119/.0159) 16 mm ²						
331618	18	.652	16.6	163	289	431	330604	4	.899	22.8	393	580	864
331625	25	.741	18.8	227	397	592	330605	5	.982	24.9	491	725	1080
14 AWG (46/30) 2.50 mm ²							4 AWG (413/30) 21 mm ²						
331403	3	.362	9.2	45	87	130	330404	4	1.094	27.8	541	952	1418
331404	4	.392	10.0	60	107	159	2 AWG (66/30) 33.7 mm ²						
331405	5	.427	10.8	75	128	191	330204	4	1.272	32.3	903	1394	2077
331407	7	.463	11.81	105	169	252	330205	5	1.408	35.8	1068	1749	2606

ÖLFLEX® TRAY II/ II CY

Flexible & Oil Resistant Tray Cable with both
UL & CSA TC Approval for Industrial Applications



ÖLFLEX® TRAY II is an industrial grade tray cable with superior oil performance for long cable life. It has been improved to meet UL Oil Res. I & II and have better cold temperature flexibility, meeting UL -25°C cold impact. It has a pressure extruded jacket and fine copper stranding for excellent flexibility making it much easier to pull through tray. With UL TC-ER approval, no conduit is needed so you can reduce material costs along with saving on labor.

RECOMMENDED APPLICATIONS:

Industrial plant expansions, automotive plants, cold temperature processes, tray wiring, anywhere that VNTC® cables are used

APPLICATION ADVANTAGE:

- Oil resistant pressure extruded PVC jacket for improved flexibility
- Easier to pull than standard tray cables minimizing labor costs
- UL TC-ER approval to reduce material costs. No conduit is needed.
- Black numbered conductors for easy identification
- UV resistant and direct burial
- Improved cold temperature flexibility and abrasion resistance

ÖLFLEX® TRAY II Construction:

Finely stranded bare copper conductors; specially blended PVC/nylon insulation; specially formulated oil resistant black PVC jacket.



ÖLFLEX® TRAY II CY Construction:

Finely stranded bare copper conductors; specially blended PVC/nylon insulation; 100% shielding with foil tape and tinned copper braid (70% coverage); specially formulated oil resistant black PVC jacket



TECHNICAL DATA:

Minimum Bending Radius for installation: < 1 AWG: 5 x cable diameter ≥ 1 AWG: 7.5 x cable diameter	Color Code: Black with white numbers plus green/yellow ground
Temperature Range: -40°C to +90°C UL/CSA TC -40°C to +90°C UL/CSA/AWM	Approvals: 83 UL: - Type TC-ER (Exposed Run) or DP-1 - UL AWM, Oil Res I & II, Wet Rating 75°C UL - UL MTW, NFPA 79 2007 - UL -40°C Cold Bend - UL -25°C Cold Impact - UL WTTC (Wind Turbine Tray Cable) 1000V Per UL 2277 - Class 1, Div. 2 per NEC Art. 336, 392, 501 - Submersible Pump Cable (14 AWG & Larger: 2 to 7 conductors) - c(UL) Type TC and CIC FT4
Nominal Voltage: 600V - TC 1000V - AWM 1000V - Wind Turbine Tray Cable (WTTC)	CSA: - CSA-AWM I/II A/B FT4 Additional: - MSHA-P-07-KA050016-MSHA (Shielded Only) - Torsion Tested for Wind Market (+/- 90°/m) & (+/- 150°/m)
Conductor Stranding: Class 5 Fine Wire 18 - 6 AWG Class K Fine Wire 4, 2 AWG	

Please note that VNTC® is a trademark for General Cable Technologies Corporation.

ÖLFLEX® TRAY II/ II CY

Flexible & Oil Resistant Tray Cable with both
UL & CSA TC Approval for Industrial Applications



ÖLFLEX® TRAY II: Flexible and Oil Resistant Tray Cable

Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km
18 AWG (19/30) 1.00 mm ²							221207						
221803	3	.297	7.5	19	57	85	10 AWG (82/.0117) 6 mm ²						
221804	4	.320	8.1	25	66	98	221004	4	.578	14.7	147	265	394
221805	5	.346	8.8	31	77	115	221005	5	.631	16.0	184	317	472
221807	7	.373	9.5	44	100	149	221007	7	.686	17.4	257	443	661
221809	9	.429	10.9	56	112	167	8 AWG (74/.0159) 10 mm ²						
221812	12	.477	12.1	75	171	255	220804	4	.703	17.9	245	412	615
221818	18	.587	14.9	113	245	365	220805	5	.772	19.6	306	518	771
221825	25	.664	16.9	156	322	479	6 AWG (119/.0159) 16 mm ²						
221850	50	.939	23.9	313	646	961	220603	3	.776	19.7	295	462	688
16 AWG (28/30) 1.50 mm ²							220604	4	.899	22.8	393	580	864
221603	3	.325	8.3	27	69	103	220605	5	.982	24.9	491	725	1080
221604	4	.351	8.9	36	83	124	4 AWG (413/30) 25 mm ²						
221605	5	.381	9.7	45	98	146	220403	3	.999	25.3	406	918	1367
221607	7	.412	10.5	64	127	189	220404	4	1.094	27.8	541	952	1418
221608	8	.444	11.3	73	136	203	2 AWG (665/30) 35 mm ²						
221609	9	.476	12.1	82	171	255	220203	3	1.155	29.3	640	1169	1741
221612	12	.565	14.4	109	220	328	220204	4	1.272	32.3	853	1394	2077
221616	16	.621	15.8	145	271	403	1 AWG (836/30) 42.3 mm ²						
221618	18	.652	16.6	163	289	431	220104	4	1.400	35.6	1096	1978	2947
221625	25	.741	18.8	227	397	592	1/0 AWG (1045/30) 52.9 mm ²						
221641	41	.986	25.0	372	625	931	221104	4	1.466	37.2	1344	2195	3271
221650	50	1.048	26.6	454	760	1132	2/0 AWG (1330/30) 67.3 mm ²						
221661	61	1.085	27.6	553	769	1148	222204	4	1.674	42.5	1777	2750	4098
14 AWG (46/30) 2.50 mm ²							3/0 AWG (1672/30) 84.8 mm ²						
221403	3	.362	9.2	45	87	130	223304	4	1.695	43.1	2255	3717	5538
221404	4	.392	10.0	60	107	159	4/0 AWG (2107/30) 106.7 mm ²						
221405	5	.427	10.8	75	128	191	224404	4	2.059	52.3	2839	4694	6994
221407	7	.463	11.8	105	169	252	250 KCMIL (33 x 19/24) 128.4 mm ²						
221409	9	.571	14.5	135	225	335	222504	4	2.167	55.0	3314	5102	7602
221412	12	.636	16.2	179	308	459	350 KCMIL (24 x 37/24) 181.9 mm ²						
221418	18	.737	18.7	269	439	654	223504	4	2.501	63.5	4687	5578	8311
221425	25	.886	22.5	374	587	874	500 KCMIL (34 x 37/24) 257.6 mm ²						
12 AWG (56/.0117) 4 mm ²							225004	4	2.902	73.7	6615	7090	10564
221203	3	.423	10.7	75	111	165							
221204	4	.460	11.7	100	152	226							
221205	5	.503	12.8	125	187	279							

ÖLFLEX® TRAY II CY: Shielded Flexible and Oil Resistant Tray Cable

Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km
18 AWG (19/30) 1.00 mm ²							2214070						
2218030	3	.322	8.2	21	80	119	2214120	12	.667	16.9	208	400	595
2218040	4	.346	8.8	35	92	137	2214180	18	.768	19.5	303	527	784
2218050	5	.371	9.4	42	100	149	2214250	25	.917	23.3	426	704	1048
2218070	7	.398	10.1	56	130	193	12 AWG (56/.0117) 4 mm ²						
2218120	12	.508	12.9	96	222	330	2212040	4	.491	12.5	121	212	315
2218180	18	.618	15.7	138	294	438	2212050	5	.568	14.4	151	261	388
2218250	25	.695	17.7	190	386	574	2212070	7	.612	15.5	201	335	499
16 AWG (28/30) 1.5 mm ²							10 AWG (82/.0117) 6 mm ²						
2216030	3	.350	8.9	38	97	144	2210040	4	.609	15.5	173	371	552
2216040	4	.376	9.6	48	116	173	2210050	5	.662	16.8	211	412	613
2216050	5	.406	10.3	59	127	189	2210070	7	.717	18.2	291	575	856
2216070	7	.443	11.3	82	165	246	8 AWG (74/.0159) 10 mm ²						
2216120	12	.596	15.1	134	286	426	2208040	4	.737	18.7	279	576	857
2216180	18	.683	17.3	196	346	515	6 AWG (119/.0159) 16 mm ²						
2216250	25	.772	19.6	261	476	708	2206040	4	.918	23.3	435	812	1208
14 AWG (46/30) 2.5 mm ²							4 AWG (413/30) 25 mm ²						
2214030	3	.387	9.8	57	121	180	2204040	4	1.127	28.6	613	1332	1982
2214040	4	.423	10.7	78	150	223	2 AWG (665/30) 35 mm ²						
2214050	5	.458	11.6	93	180	268	2202040	4	1.309	33.2	945	1951	2903

The zero at the end of the part number denotes foil and braid shielding.

ÖLFLEX® TC 600/ 600 S

For Exposed Run, no conduit is needed.



ÖLFLEX® TC 600: Flexible Tray Cable

Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km
18 AWG (7 strand) 1.00 mm ²							12 AWG (19 strand) 3.30 mm ²						
211802	2	.273	6.9	13	42	63	211406	6	.439	11.2	81	164	244
211803	3	.287	7.3	16	55	82	211407	7	.439	11.2	94	164	244
211804	4	.310	7.9	21	64	95	211409	9	.510	13.0	121	218	324
211805	5	.335	8.5	27	75	112	211410	10	.585	14.9	135	242	360
211807	7	.361	9.2	37	97	144	211412	12	.602	15.3	162	298	443
211809	9	.416	10.6	48	109	162	211416	16	.665	16.9	215	373	555
211810	10	.449	11.4	53	115	171	211419	19	.699	17.8	256	450	670
211812	12	.462	11.7	64	166	247	211425	25	.807	20.5	337	569	847
211815	15	.511	13.0	80	207	308	10 AWG (19 strand) 5.32 mm ²						
211819	19	.569	14.5	101	263	391	211002	2	.439	11.2	74	148	220
211825	25	.648	16.6	133	312	464	211003**	3	.466	11.9	102	193	287
16 AWG (7 strand) 1.32 mm ²							211004**	4	.511	13.0	136	257	382
211602	2	.295	7.5	18	52	77	211005	5	.591	15.0	170	307	457
211603	3	.311	7.9	25	67	100	211007	7	.642	16.3	238	430	640
211604	4	.337	8.6	34	80	119	211009	9	.748	19.0	306	549	817
211605	5	.364	9.3	42	95	141	211012	12	.839	21.3	408	737	1097
211606	6	.394	10.0	51	123	183	211019	19	1.024	26.0	646	1178	1753
211607	7	.394	10.0	59	123	183	8 AWG (19 strand) 8.38 mm ²						
211609	9	.455	11.6	76	166	247	210804	4	.650	16.5	245	597	888
211610	10	.493	12.5	85	184	273	6 AWG (19 strand) 13.2 mm ²						
211612	12	.508	12.9	101	213	317	210604	4	.746	18.9	393	838	1297
211615	15	.594	15.1	127	235	350							
211616	16	.594	15.1	135	246	366							
211618	18	.624	15.9	153	272	405							
211619	19	.624	15.9	161	286	426							
211620	20	.655	16.6	169	301	448							
211625	25	.718	18.2	211	312	464							
211637	37	.822	20.9	300	514	765							
14 AWG (19 strand) 2.08 mm ²													
211402	2	.325	8.3	30	65	96							
211403**	3	.343	8.7	40	84	125							
211404**	4	.373	9.5	54	104	155							
211405	5	.405	10.3	67	124	185							

ÖLFLEX® TC 600 S: Shielded Flexible Tray Cable

Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km
18 AWG (7 strand) 1.00 mm ²							12 AWG (19 strand) 3.30 mm ²						
211802S	2	.276	7.0	13	44	65	211406S	6	.442	11.2	81	169	251
211803S	3	.290	7.3	16	57	84	211407S	7	.442	11.2	94	169	251
211804S	4	.313	7.9	21	66	98	211409S	9	.513	13.0	121	225	334
211805S	5	.338	8.5	27	77	115	211410S	10	.588	14.9	135	249	371
211807S	7	.364	9.2	37	100	148	211412S	12	.605	15.3	162	307	456
211809S	9	.419	10.6	48	112	167	211416S	16	.668	16.9	215	384	572
211810S	10	.452	11.4	53	118	176	211419S	19	.702	17.8	256	464	690
211812S	12	.465	11.7	64	171	254	211425S	25	.810	20.5	337	586	872
211815S	15	.514	13.0	80	213	317	10 AWG (19 strand) 5.32 mm ²						
211819S	19	.572	14.5	101	271	403	211002S	2	.422	11.2	74	154	229
211825S	25	.651	16.6	133	321	478	211003**	3	.469	11.9	102	199	296
16 AWG (7 strand) 1.32 mm ²							211004**	4	.514	13.0	136	265	393
211602S	2	.298	7.6	18	54	80	211005S	5	.594	15.0	170	316	471
211603S	3	.314	7.9	25	69	103	211007S	7	.645	16.3	238	443	659
211604S	4	.340	8.6	34	82	123	211009S	9	.751	19.0	306	565	842
211605S	5	.367	9.3	42	98	145	211012S	12	.842	21.3	408	759	1130
211606S	6	.397	10.0	51	127	188	211019S	19	1.027	26.0	646	1213	1806
211607S	7	.397	10.0	59	127	188							
211609S	9	.458	11.6	76	171	254							
211610S	10	.496	12.6	85	190	281							
211612S	12	.511	12.9	101	219	327							
211616S	16	.597	15.1	135	253	377							
211619S	19	.627	15.9	161	295	439							
211620S	20	.658	16.6	169	310	461							
211625S	25	.721	18.2	211	321	478							
14 AWG (19 strand) 2.08 mm ²													
211402S	2	.328	8.3	30	67	100							
211403S**	3	.346	8.7	40	87	129							
211404S**	4	.376	9.5	54	107	160							
211405S	5	.408	10.3	67	128	191							

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