



HELUKABEL TOPFLEX 1000 VFD P/N 59406 4/0 AWG (107,2mm²) /3C + 6 AWG (13,3 mm²) /3C
DRY/WET 600V SUN RES OIL RES I E330430 OR WTTC 1000V FLEXIBLE MOTOR SUPPLY CABLE 1
c(UL) CIC-TC FT4 CE

HELUKABEL TOPSERV 650 VFD 12AWG/4C

18AWG/2C

Industrial Cables

Motor and Drive Applications

Why use VFD Cables?

VFD cables are a critical component in order to extend a motor's life cycle within a VFD system. Three areas where VFD cables set themselves apart over traditional tray-rated power cables are:

1. Address high and low frequency noise issues with proper shielding

Shielding on cables is what prevents systems from interacting with each other. In short, a cable's shield is its defense against noise. THHN and most generic control/tray cable are constructed using either an aluminum shield or they are unshielded. HELUKABEL's VFD cables are constructed using either a foil (100% coverage) + tinned copper braid (85% coverage), or a triple shield comprising of a semi-conductive fleece + foil + braid shield (80% coverage). Cables with the proper shielding prevent the VFD system from radiating electrical noise that can interfere with surrounding networking, instrumentation, wireless communication, and industrial devices.

2. Ability to withstand voltage spikes/reflected wave voltage

A cable combats voltage spikes with insulation material and wall thickness. HELUKABEL's VFD cables use XLPE insulation as its conductor insulation. XLPE has a much lower capacitance (higher corona inception voltage) than THHN and generic control/tray cable which just use PVC. This is particularly important in wet or damp environments as PVC is more susceptible to absorbing moisture, which results in less than half the insulation capability of XLPE. The wall thickness of a VFD cable tends to be thicker allowing it to withstand voltage spikes significantly better.

3. High temperature resistance

A cable's type of insulation plays a significant role in how it responds to thermal stress. Thermoset insulation won't melt or drip in higher temperatures like the thermoplastic insulation found in THHN and generic control/tray cables. If thermoplastic insulation is used, you run the risk that it will melt, drip, or simply deform, which reduces the insulation properties, and can cause damage to critical and expensive equipment/machinery.

Motor Current Rating Chart

Horsepower	AC Induction Motors						
	Single Phase		Three phase				
	115 Volt @ 60 HZ	230 Volt @ 60 HZ	200 Volt @ 60 HZ	230 Volt @ 60 HZ	380-415 Volt @ 60 HZ	460 Volt @ 60 HZ	575 Volt @ 60 HZ
1	16.0	8.0	4.8	4.2	2.3	2.1	1.7
1 1/2	20.0	10.0	6.9	6.0	3.3	3.0	2.4
2	24.0	12.0	7.8	6.8	4.3	3.4	2.7
3	34.0	17.0	11.0	9.6	6.1	4.8	3.9
5	56.0	28.0	17.5	15.2	9.7	7.6	6.1
7 1/2	80.0	40.0	25.3	22.0	14.0	11.0	9.0
10	100	50.0	32.2	28.0	18.0	14.0	11.0
15	135	68.0	48.3	42.0	27.0	21.0	17.0
20	~	88.0	62.1	54.0	34.0	27.0	22.0
25	~	110	78.2	68.0	44.0	34.0	27.0
30	~	136	92.0	80.0	51.0	40.0	32.0
40	~	176	120	104	66.0	52.0	41.0
50	~	216	150	130	83.0	65.0	52.0
60	~	~	177	154	103	77.0	62.0
75	~	~	221	192	128	96.0	77.0
100	~	~	285	248	165	124	99.0
125	~	~	359	312	208	156	125
150	~	~	414	360	240	180	144
175	~	~	475	413	275	207	168
200	~	~	552	480	320	240	192
250	~	~	692	604	403	302	242
300	~	~	~	722	482	361	289
350	~	~	~	828	560	414	336
400	~	~	~	954	636	477	382
450	~	~	~	1030	711	515	412
500	~	~	~	1180	786	590	472

Welcome to HELUKABEL® USA

HELUKABEL® USA is the headquarters and distribution center for HELUKABEL® in the United States. Our facility stocks a wide variety of cable, wire and cable accessories, including flexible tray cable, high-flex robotic cable, VFD/servo cable, network bus cable, and hook-up wires with multiple domestic and international approvals, such as UL, CSA, HAR, CCC, GOST-R, TÜV, VDE, CE, RoHS.

To ensure that our cables and wires perform at optimum levels, we also offer an extensive range of cable accessories that meet the latest domestic and international regulations and standards, including cable glands, connectors, cable protection systems, and tools.



We continually provide a wide array of cabling solutions for the shipbuilding, automotive, machine tool, industrial manufacturing, food processing, packaging, renewable energy industries, and many other market segments. Centrally located in the northwest suburbs of Chicago, IL, our 75,000 sq. ft. warehouse stocks over 4,000 line items.

Having an extensive in-stock product offering allows our staff to package and ship most orders within the same business day. Our proximity to one of the United States' busiest transportation hubs allows your order to arrive anywhere in the U.S. within as little as two business days.

Finally, as one of HELUKABEL's 30 global locations, along with our extensive list of exclusive partnerships, your order can reach over 160 countries in a short time frame.

TOPFLEX® 600 VFD XLPE insulation, EMC-preferred type, flexible motor power supply cable, oil-resistant, NFPA 79 Ch. 4



Technical Data

UL: TC-ER (1277), WTTC (2277), ITC-ER & PLTC-ER (18-12 AWG), 44 (14-2 AWG), NFPA 79, Class I Div. 2 per NEC Art. 501, NEC Art. 336 & 392, Oil Res I/II, 90°C Dry/Wet, -40°C Cold Bend, SUN RES, DIR BUR

CSA: C22.2 No. 230 & 239 - c(UL) CIC-TC FT4, C22.2 No. 210 - AWM I/II A/B FT4

Insulation: XLPE

Jacket: PVC

Additional technical data available on request.

Jacket color black

Part no.	No. conductor x AWG No.	Cross section mm ²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
63139	4 x 18	0,824	11,8	60,0	201,0
63140	4 x 16	1,31	12,5	81,5	238,0
63137	4 x 14	2,08	14,7	113,2	327,0
63141	4 x 12	3,31	15,7	163,3	409,0
63142	4 x 10	5,26	17,7	254,7	536,0
63143	4 x 8	8,37	23,0	389,9	856,0
63144	4 x 6	13,3	24,7	600,7	1131,0
63145	4 x 4	21,2	27,7	913,3	1518,0
63146	4 x 2	33,6	31,8	1383,1	2106,0

Jacket color orange

Part no.	No. conductor x AWG No.	Cross section mm ²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
63147	4 x 18	0,824	11,8	60,0	201,0
63148	4 x 16	1,31	12,5	81,5	238,0
63149	4 x 14	2,08	14,7	113,2	327,0
63150	4 x 12	3,31	15,7	163,3	409,0
63151	4 x 10	5,26	17,7	254,7	536,0
63152	4 x 8	8,37	23,0	389,9	856,0
63153	4 x 6	13,3	24,7	600,7	1131,0
63154	4 x 4	21,2	27,7	913,3	1518,0
63155	4 x 2	33,6	31,8	1383,1	2106,0

Legend



UL Approved



CSA Approved



CE Approved



VDE Approved




EAC (GOST-R) Approved



Cable Track Rated

PP = Polypropylene
 PUR = Polyurethane
 PVC = Polyvinyl chloride
 TPE = Thermoplastic elastomer
 XLPE = Cross-linked polyethylene

 Electromagnetic
 Compatibility

TOPFLEX® 650 VFD XLPE insulation, EMC-preferred type, flexible motor power supply cable with control pairs, oil-resistant, NFPA 79 Ch. 4



Technical Data

UL: TC-ER (1277), WTTC (2277), ITC-ER & PLTC-ER (18-12 AWG), 44 (14-2 AWG), NFPA 79, Class I Div. 2 per NEC Art. 501, NEC Art. 336 & 392, Oil Res I/II, 90°C Dry/Wet, -40°C Cold Bend, SUN RES, DIR BUR

CSA: C22.2 No. 230 & 239 - c(UL) CIC-TC FT4, C22.2 No. 210 - AWM I/II A/B FT4

Insulation: XLPE

Jacket: TPE

Additional technical data available on request.

Jacket color black

Part no.	No. conductor x AWG No.	Cross section mm ²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
63156	4x AWG 16 +2x AWG 18	1,31 / 0,963	15,6	123,5	320,0
63157	4x AWG 14 +2x AWG 18	2,08 / 0,963	16,7	158,1	379,0
63138	4x AWG 14 +2x AWG 16	2,08 / 1,31	17,0	165,8	394,0
63158	4x AWG 12 +2x AWG 18	3,31 / 0,963	17,7	205,1	454,0
63159	4x AWG 12 +2x AWG 16	3,31 / 1,31	18,0	214,3	469,0
63160	4x AWG 10 +2x AWG 16	5,26 / 1,31	19,7	315,1	603,0
63161	4x AWG 8 +2x AWG 16	8,37 / 1,31	24,8	485,1	945,0
63162	4x AWG 6 +2x AWG 16	13,3 / 1,31	26,2	691,7	1190,0
63163	4x AWG 4 +2x AWG 16	21,2 / 1,31	29,0	1037,1	1615,0

Jacket color orange

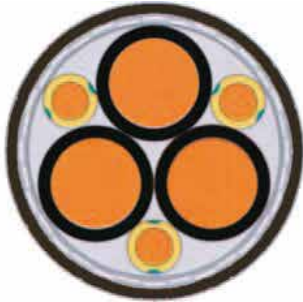
Part no.	No. conductor x AWG No.	Cross section mm ²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
62876	4x AWG 16 +2x AWG 18	1,31 / 0,963	15,6	123,5	320,0
62877	4x AWG 14 +2x AWG 18	2,08 / 0,963	16,7	158,1	379,0
62878	4x AWG 14 +2x AWG 16	2,08 / 1,31	17,0	165,8	394,0
62879	4x AWG 12 +2x AWG 18	3,31 / 0,963	17,7	205,1	454,0
62880	4x AWG 12 +2x AWG 16	3,31 / 1,31	18,0	214,3	469,0
62881	4x AWG 10 +2x AWG 16	5,26 / 1,31	19,7	315,1	603,0
62882	4x AWG 8 +2x AWG 16	8,37 / 1,31	24,8	485,1	945,0
62883	4x AWG 6 +2x AWG 16	13,3 / 1,31	26,2	691,7	1190,0
62884	4x AWG 4 +2x AWG 16	21,2 / 1,31	29,0	1037,1	1615,0



VFDs are an adjustable-speed drive used in electro-mechanical drive systems to control AC motor speed and torque by varying motor input frequency and voltage. They are used in applications ranging from small appliances to large compressors.

TOPFLEX® 1000 VFD

XLPE insulation, EMC-preferred type, flexible motor power supply cable w/ 3 symmetrical ground conductors, oil-resistant, NFPA79 Ch. 4



Technical Data

UL: TC-ER (1277), WTTC (2277), 44, AWM 21270 (250-500 kcmil) NFPA 79, Oil Res I/II, 90°C Dry/Wet, Class I Div. 2 per NEC Art. 501, SUN RES, DIR BUR

CSA: C22.2 No. 230 & 239 - c(UL) CIC-TC FT4 (8 - 4/0 AWG), C22.2 No. 210 - AWM I/II A/B FT4 **Insulation:** XLPE **Jacket:** TPE

Additional technical data available on request.

Part no.	No. power conductor x AWG No.	No. ground conductor x AWG No.	No. conductor x cross section mm²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
59398	3x AWG 8 +	3x AWG 14	(3x 8,37 + 3x 2,08)	20,0	361,8	714,0
59399	3x AWG 6 +	3x AWG 12	(3x 13,3 + 3x 3,31)	23,0	536,2	982,0
59400	3x AWG 4 +	3x AWG 12	(3x 21,2 + 3x 3,31)	25,0	790,9	1302,0
59401	3x AWG 2 +	3x AWG 10	(3x 33,6 + 3x 5,26)	29,0	1203,5	1808,0
59402	3x AWG 1 +	3x AWG 8	(3x 42,4 + 3x 8,37)	33,0	1552,1	2426,0
59403	3x AWG 1/0 +	3x AWG 8	(3x 53,3 + 3x 8,37)	36,0	1906,3	2850,0
59404	3x AWG 2/0 +	3x AWG 8	(3x 67,4 + 3x 8,37)	38,0	2334,5	3304,0
59405	3x AWG 3/0 +	3x AWG 6	(3x 84,7 + 3x 13,3)	41,0	2943,3	4025,0
59406	3x AWG 4/0 +	3x AWG 6	(3x 107 + 3x 13,3)	46,0	3582,8	4896,0
59407	3x AWG 250 kcmil +	3x AWG 6	(3x 127 + 3x 13,3)	51,0	4097,0	5685,0
59408	3x AWG 300 kcmil +	3x AWG 4	(3x 152 + 3x 21,2)	53,0	5074,6	6830,0
59409	3x AWG 350 kcmil +	3x AWG 4	(3x 175 + 3x 21,2)	56,0	5747,3	7545,0
59410	3x AWG 400 kcmil +	3x AWG 2	(3x 203 + 3x 33,6)	61,0	6808,0	8914,0
59411	3x AWG 500 kcmil +	3x AWG 2	(3x 256 + 3x 33,6)	66,0	8217,9	10536,0

V2K - 2kV VFD

600V/2kV, XLPE insulation, three symmetrical grounds, 90°C dry and 75°C wet



Technical Data

UL: 44, TC-ER (1277), SUN RES

CSA: FT4

Insulation: XLPE **Jacket:** PVC

Additional technical data available on request.

Part No.	No. of power conductors x cross sec. AWG	No. of ground conductors x cross sec. AWG	Outer Ø approx. mm	Weight approx. kg/km	Part No.	No. of power conductors x cross sec. AWG	No. of ground conductors x cross sec. AWG	Outer Ø approx. mm	Weight approx. kg/km
V2K14-18	3x AWG 14 +	3x AWG 18	15,0	358,6	V2K1-0-06	3x AWG 1/0 +	3x AWG 6	35,9	2701,0
V2K12-16	3x AWG 12 +	3x AWG 16	16,0	391,4	V2K2-0-06	3x AWG 2/0 +	3x AWG 6	38,4	3849,9
V2K10-14	3x AWG 10 +	3x AWG 14	17,3	494,1	V2K3-0-05	3x AWG 3/0 +	3x AWG 5	41,1	3906,4
V2K08-14	3x AWG 8 +	3x AWG 14	20,2	620,6	V2K4-0-04	3x AWG 4/0 +	3x AWG 4	45,8	4823,1
V2K06-12	3x AWG 6 +	3x AWG 12	23,4	925,6	V2K250-02	3x AWG 250 +	3x AWG 2	50,0	5442,2
V2K04-12	3x AWG 4 +	3x AWG 12	25,9	1165,2	V2K350-02	3x AWG 350 +	3x AWG 2	55,8	7378,3
V2K02-10	3x AWG 2 +	3x AWG 10	29,2	1720,3	V2K500-01	3x AWG 500 +	3x AWG 1	62,9	9954,3

TOPSERV® 600 VFD XLPE insulation, EMC-preferred type, highly flexible motor power supply cable, oil-resistant, NFPA 79 Ch. 4



Technical Data

UL: TC-ER (1277), WTTC (2277), ITC-ER & PLTC-ER (18-12 AWG), 44 (14-2 AWG), NFPA 79, Class I Div. 2 per NEC Art. 501, NEC Art. 336 & 392, Oil Res I/II, 90°C Dry/Wet, -40°C Cold Bend, SUN RES, DIR BUR

CSA: C22.2 No. 230 & 239 - c(UL) CIC-TC FT4, C22.2 No. 210 - AWM I/II A/B FT4

Insulation: XLPE

Jacket: TPE

Additional technical data available on request.

Jacket color black

Part no.	No. conductor x AWG No.	Cross section mm ²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
62607	4 x 18	0,824	11,9	60,9	182,0
62608	4 x 16	1,31	12,9	82,5	219,0
62609	4 x 14	2,08	14,5	115,2	290,0
62610	4 x 12	3,31	16,5	170,7	379,0
62611	4 x 10	5,26	18,0	239,3	484,0
62612	4 x 8	8,37	23,2	392,9	796,0
62613	4 x 6	13,3	24,9	606,6	1042,0
62614	4 x 4	21,2	28,0	921,9	1429,0
62615	4 x 2	33,6	32,0	1396,5	2009,0

Jacket color orange

Part no.	No. conductor x AWG No.	Cross section mm ²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
62616	4 x 18	0,824	11,9	60,9	182,0
62617	4 x 16	1,31	12,9	82,5	219,0
62618	4 x 14	2,08	14,5	115,2	290,0
62619	4 x 12	3,31	16,5	170,7	379,0
62620	4 x 10	5,26	18,0	239,3	484,0
62621	4 x 8	8,37	23,2	392,9	796,0
62622	4 x 6	13,3	24,9	606,6	1042,0
62623	4 x 4	21,2	28,0	921,9	1429,0
62624	4 x 2	33,6	32,0	1396,5	2009,0

The current NFPA guidelines require RHH, RHW, RHW-2, XHH, XHHE or XHHW-2 insulation for use inside the motor's control panel or cabinet, but the expectation is this requirement will move to include cable used in external wiring of VFD applications in the upcoming years.



TOPSERV® 650 VFD XLPE insulation, EMC-preferred type, highly flexible motor power supply cable with control pairs, oil-resistant, NFPA 79 Ch. 4



Technical Data

UL: TC-ER (1277), WTTC (2277), ITC-ER & PLTC-ER (18-12 AWG), 44 (14-2 AWG), NFPA 79, Class I Div. 2 per NEC Art. 501, NEC Art. 336 & 392, Oil Res I/II, 90°C Dry/Wet, -40°C Cold Bend, SUN RES, DIR BUR

CSA: C22.2 No. 230 & 239 - c(UL) CIC-TC FT4, C22.2 No. 210 - AWM I/II A/B FT4

Insulation: XLPE

Jacket: TPE

Additional technical data available on request.

Jacket color black

Part no.	No. conductor x AWG No.	Cross section mm ²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
59837	4x AWG 16 +2x AWG 18	1,31 / 0,824	16,2	105,2	335,0
59838	4x AWG 14 +2x AWG 18	2,08 / 0,824	16,8	136,9	379,0
59839	4x AWG 14 +2x AWG 16	2,08 / 1,31	17,3	147,3	400,0
59840	4x AWG 12 +2x AWG 18	3,31 / 0,824	18,6	188,7	469,0
59841	4x AWG 12 +2x AWG 16	3,31 / 1,31	19,1	199,1	490,0
59842	4x AWG 10 +2x AWG 16	5,26 / 1,31	20,6	292,1	613,0
59843	4x AWG 8 +2x AWG 16	8,37 / 1,31	25,4	451,9	945,0
59844	4x AWG 6 +2x AWG 16	13,3 / 1,31	26,8	641,5	1168,0
59845	4x AWG 4 +2x AWG 16	21,21 / 1,31	29,6	954,1	1563,0

Jacket color orange

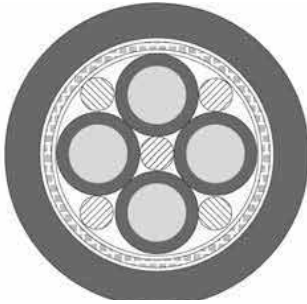
Part no.	No. conductor x AWG-No.	Cross section mm ²	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
59846	4x AWG 16 +2x AWG 18	1,31 / 0,824	16,2	105,2	335,0
710015	4x AWG 16 +2x 2x AWG 18	1,31 / 0,824	18,5	127,9	418,0
59847	4x AWG 14 +2x AWG 18	2,08 / 0,824	16,8	136,9	379,0
712804	4x AWG 14 +2x 2x AWG 18	2,08 / 0,824	19,1	159,5	464,0
59848	4x AWG 14 +2x AWG 16	2,08 / 1,31	17,3	147,3	400,0
710017	4x AWG 14 +2x 2x AWG 16	2,08 / 1,31	19,9	180,0	506,0
59849	4x AWG 12 +2x AWG 18	3,31 / 0,824	18,6	188,7	469,0
710018	4x AWG 12 +2x 2x AWG 18	3,31 / 0,824	20,9	229,5	573,0
59850	4x AWG 12 +2x AWG 16	3,31 / 1,31	19,1	199,1	490,0
710019	4x AWG 12 +2x 2x AWG 16	3,31 / 1,31	22,4	249,6	661,0
59851	4x AWG 10 +2x AWG 16	5,26 / 1,31	20,6	292,1	613,0
710020	4x AWG 10 +2x 2x AWG 16	5,26 / 1,31	24,0	326,5	774,0
59852	4x AWG 8 +2x AWG 16	8,37 / 1,31	25,4	451,9	945,0
710021	4x AWG 8 +2x 2x AWG 16	8,37 / 1,31	27,5	487,3	1054,0
59853	4x AWG 6 +2x AWG 16	13,3 / 1,31	26,8	641,5	1168,0
710022	4x AWG 6 +2x 2x AWG 16	13,3 / 1,31	28,8	676,4	1280,0
59854	4x AWG 4 +2x AWG 16	21,21 / 1,31	29,6	954,1	1563,0
710023	4x AWG 4 +2x 2x AWG 16	21,21 / 1,31	31,3	987,8	1667,0



Additional Servo, VFD and Motor Cables

HELUKABEL has an extensive range of VFD and motor cables that are approved by such international standards as VDE and EAC to name a few. The entire HELUKABEL range of VFD and motor cables can be found in our Cables, Wires, & Accessories catalog or by visiting helukabel.com.

TOPSERV® PVC motor and servo cables for fixed or non-constant movements, 0,6/1 kV, according to Siemens 6FX5008, Lenze, Bosch Rexroth



Technical Data

UL: UL AWM Style 2570

CSA: AWM

Insulation: >6 mm² - Halogen-free PP / <10 mm² - PVC Jacket: PVC

Additional technical data available on request.

TOPSERV® 108 PVC, according to Siemens 6FX5008

Part no.	No. conductors x cross sec. mm ²	for system	OEM Part no.	Jacket colour	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG No.
707250	(4 G 1,5)	Siemens	6FX5008-1BB11	Orange RAL 2003	8,0	78,0	118,0	16
707251	(4 G 2,5)	Siemens	6FX5008-1BB21	Orange RAL 2003	9,6	130,0	180,0	14
707252	(4 G 4)	Siemens	6FX5008-1BB31	Orange RAL 2003	11,0	198,0	264,0	12
707253	(4 G 6)	Siemens	6FX5008-1BB41	Orange RAL 2003	13,1	288,0	382,0	10
707254	(4 G 10)	Siemens	6FX5008-1BB51	Orange RAL 2003	19,3	463,0	764,0	8
707255	(4 G 16)	Siemens	6FX5008-1BB61	Orange RAL 2003	23,3	701,0	1218,0	6
707256	(4 G 25)	Siemens	6FX5008-1BB25	Orange RAL 2003	26,9	1068,0	1670,0	4
707257	(4 G 35)	Siemens	6FX5008-1BB35	Orange RAL 2003	30,3	1449,0	2139,0	2
707258	(4 G 50)	Siemens	6FX5008-1BB50	Orange RAL 2003	34,5	2096,0	2991,0	1

TOPSERV® 112 PVC, according to Siemens 6FX5008

Part no.	No. conductors x cross sec. mm ²	for system	OEM Part no.	Jacket color	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG No.
707280	(4 G 1,5 + (2 x 1,5))	Siemens	6FX5008-1BA11	Orange RAL 2003	10,4	140,0	206,0	16
707281	(4 G 2,5 + (2 x 1,5))	Siemens	6FX5008-1BA21	Orange RAL 2003	12,0	185,0	269,0	14
707282	(4 G 4 + (2 x 1,5))	Siemens	6FX5008-1BA31	Orange RAL 2003	13,6	257,0	377,0	12
707283	(4 G 6 + (2 x 1,5))	Siemens	6FX5008-1BA41	Orange RAL 2003	15,6	348,0	485,0	10
707284	(4 G 10 + (2 x 1,5))	Siemens	6FX5008-1BA51	Orange RAL 2003	21,0	502,0	887,0	8
707285	(4 G 16 + (2 x 1,5))	Siemens	6FX5008-1BA61	Orange RAL 2003	24,1	741,0	1276,0	6
707286	(4 G 25 + (2 x 1,5))	Siemens	6FX5008-1BA25	Orange RAL 2003	28,3	1100,0	1716,0	4
707287	(4 G 35 + (2 x 1,5))	Siemens	6FX5008-1BA35	Orange RAL 2003	31,4	1498,0	2290,0	2
707288	(4 G 50 + (2 x 1,5))	Siemens	6FX5008-1BA50	Orange RAL 2003	34,5	2500,0	2934,0	1

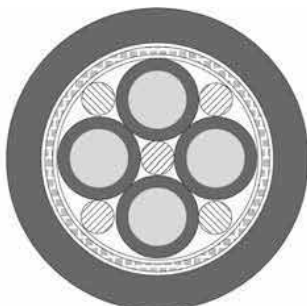
TOPSERV® 112 PVC, according to Lenze

Part no.	No. conductors x cross sec. mm ²	for system	OEM Part no.	Jacket color	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG No.
707221	(4 G 1 + (2 x 0,5))	Lenze	-	Orange RAL 2003	9,5	88,0	143,0	17
707222	(4 G 1,5 + (2 x 0,5))	Lenze	-	Orange RAL 2003	11,0	106,0	187,0	16
707223	(4 G 2,5 + (2 x 0,5))	Lenze	-	Orange RAL 2003	12,3	152,0	233,0	14
707224	(4 G 4 + (2 x 1,0))	Lenze	-	Orange RAL 2003	14,6	229,0	382,0	12
707225	(4 G 6 + (2 x 1,0))	Lenze	-	Orange RAL 2003	16,7	312,0	491,0	10
710054	(4 G 10 + (2 x 1,0))	Lenze	-	Orange RAL 2003	19,8	484,0	731,0	8
710055	(4 G 16 + (2 x 1,0))	Lenze	-	Orange RAL 2003	23,3	729,0	1033,0	6

TOPSERV® 119 PVC, according to Bosch Rexroth

Part no.	No. conductors x cross sec. mm ²	for system	OEM Part no.	Jacket color	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG No.
707290	(4 G 1 + 2 x (2 x 0,75))	Bosch Rexroth	INK-0653	Orange RAL 2003	11,2	130,0	208,0	-
707291	(4 G 1,5 + 2 x (2 x 0,75))	Bosch Rexroth	INK-0650	Orange RAL 2003	11,5	155,0	229,0	-
707292	(4 G 2,5 + 2 x (2 x 1,0))	Bosch Rexroth	INK-0602	Orange RAL 2003	13,5	216,0	321,0	-
707293	(4 G 4 + (2 x 1,0) + (2 x 1,5))	Bosch Rexroth	INK-0603	Orange RAL 2003	15,5	297,0	432,0	-
707294	(4 G 6 + (2 x 1,0) + (2 x 1,5))	Bosch Rexroth	INK-0604	Orange RAL 2003	17,3	374,0	587,0	-
707295	(4 G 10 + (2 x 1,0) + (2 x 1,5))	Bosch Rexroth	INK-0605	Orange RAL 2003	21,2	545,0	910,0	-
707296	(4 G 16 + 2 x (2 x 1,5))	Bosch Rexroth	INK-0606	Orange RAL 2003	25,0	804,0	1334,0	-

TOPSERV® PUR highly flexible motor and servo cable for drag chains, 0,6/1 kV, according to Siemens 6FX8008PLUS, Lenze, Bosch Rexroth



Technical Data

UL: UL AWM Style 21223 or 20234

CSA: AWM

Insulation: Halogen-free PP Jacket: PUR

Additional technical data available on request.

TOPSERV® 109 PUR, according to Siemens 6FX8008PLUS

Part no.	No. conductors x cross sec. mm ²	for system	OEM Part no.	Jacket color	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG No.
75943	(4 G 1,5)	Siemens	6FX8008-1BB11	Orange RAL 2003	8,9	90,0	142,0	16
75944	(4 G 2,5)	Siemens	6FX8008-1BB21	Orange RAL 2003	10,7	132,0	206,0	14
75945	(4 G 4)	Siemens	6FX8008-1BB31	Orange RAL 2003	12,2	204,0	290,0	12
75946	(4 G 6)	Siemens	6FX8008-1BB41	Orange RAL 2003	14,5	315,0	423,0	10
75947	(4 G 10)	Siemens	6FX8008-1BB51	Orange RAL 2003	17,5	488,0	672,0	8
75948	(4 G 16)	Siemens	6FX8008-1BB61	Orange RAL 2003	21,6	769,0	1038,0	6
75949	(4 G 25)	Siemens	6FX8008-1BB25	Orange RAL 2003	25,2	1100,0	1495,0	4
75950	(4 G 35)	Siemens	6FX8008-1BB35	Orange RAL 2003	28,6	1510,0	1936,0	2
75951	(4 G 50)	Siemens	6FX8008-1BB50	Orange RAL 2003	33,4	2133,0	2774,0	1
700437	(4 G 70)	Siemens	6FX8008-1BB70	Orange RAL 2003	39,9	3029,0	3803,0	2/0
700897	(4 G 95)	Siemens	-	Orange RAL 2003	49,5	4606,0	5102,0	3/0

TOPSERV® 113 PUR, according to Siemens 6FX8008PLUS

Part no.	No. conductors x cross sec. mm ²	for system	OEM Part no.	Jacket color	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG No.
78948	(4 G 1,5 + (2 x 1,5))	Siemens	6FX8008-1BA11	Orange RAL 2003	11,6	148,0	233,0	16
78949	(4 G 2,5 + (2 x 1,5))	Siemens	6FX8008-1BA21	Orange RAL 2003	13,2	187,0	315,0	14
78950	(4 G 4 + (2 x 1,5))	Siemens	6FX8008-1BA31	Orange RAL 2003	14,8	268,0	403,0	12
78951	(4 G 6 + (2 x 1,5))	Siemens	6FX8008-1BA41	Orange RAL 2003	16,3	358,0	555,0	10
78952	(4 G 10 + (2 x 1,5))	Siemens	6FX8008-1BA51	Orange RAL 2003	19,5	584,0	769,0	8
75956	(4 G 16 + (2 x 1,5))	Siemens	6FX8008-1BA61	Orange RAL 2003	23,1	825,0	1207,0	6
75957	(4 G 25 + (2 x 1,5))	Siemens	6FX8008-1BA25	Orange RAL 2003	26,8	1283,0	1642,0	4
75958	(4 G 35 + (2 x 1,5))	Siemens	6FX8008-1BA35	Orange RAL 2003	30,9	1850,0	2120,0	2
75959	(4 G 50 + (2 x 1,5))	Siemens	6FX8008-1BA50	Orange RAL 2003	34,2	2540,0	2918,0	1

TOPSERV® 113 PUR, according to Lenze

Part no.	No. conductors x cross sec. mm ²	for system	OEM Part no.	Jacket color	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG No.
707228	(4 G 1 + (2 x 0,5))	Lenze	-	Orange RAL 2003	10,5	88,0	166,0	16
707229	(4 G 1,5 + (2 x 0,5))	Lenze	-	Orange RAL 2003	11,5	106,0	206,0	16
707230	(4 G 2,5 + (2 x 0,5))	Lenze	-	Orange RAL 2003	13,2	152,0	268,0	14
707231	(4 G 4 + (2 x 1,0))	Lenze	-	Orange RAL 2003	14,6	229,0	387,0	12
707232	(4 G 6 + (2 x 1,0))	Lenze	-	Orange RAL 2003	17,6	333,0	523,0	10
707746	(4 G 10 + (2 x 1,0))	Lenze	-	Orange RAL 2003	20,1	508,0	766,0	8
707747	(4 G 16 + (2 x 1,0))	Lenze	-	Orange RAL 2003	23,8	751,0	1174,0	6

TOPSERV® 113 PUR

Part no.	No. conductors x cross sec. mm ²	for system	OEM Part no.	Jacket color	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG No.
77376	(4 G 1 + (2 x 0,75))	-	-	Orange RAL 2003	11,5	134,0	250,0	17
700199	(4 G 1,5 + (2 x 0,5))	-	-	Orange RAL 2003	11,5	127,0	240,0	16
74506	(4 G 1,5 + (2 x 1,0))	-	-	Orange RAL 2003	11,1	138,0	212,0	16
74507	(4 G 2,5 + (2 x 1,0))	-	-	Orange RAL 2003	12,5	177,0	274,0	14
74508	(4 G 4 + (2 x 1,0))	-	-	Orange RAL 2003	14,3	258,0	378,0	12
74514	(4 G 6 + (2 x 1,0))	-	-	Orange RAL 2003	16,2	348,0	493,0	10
74509	(4 G 10 + (2 x 1,0))	-	-	Orange RAL 2003	19,0	574,0	736,0	8
74510	(4 G 16 + (2 x 1,0))	-	-	Orange RAL 2003	22,2	815,0	1071,0	6
74511	(4 G 25 + (2 x 1,0))	-	-	Orange RAL 2003	26,2	1273,0	1616,0	4
74512	(4 G 35 + (2 x 1,0))	-	-	Orange RAL 2003	29,8	1840,0	2080,0	2
74513	(4 G 50 + (2 x 1,0))	-	-	Orange RAL 2003	33,7	2530,0	2854,0	1

Continued ▶

TOPSERV® 121 PUR, according to Bosch Rexroth

Part no.	No. conductors x cross sec. mm ²	for system	OEM Part no.	Jacket color	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km	AWG No.
706003	(4 G 0,75 + (2 x 0,5))	Bosch Rexroth	INK-0670	Orange RAL 2003	9,2	77,0	138,0	17
73774	(4 G 1 + 2 x (2 x 0,75))	Bosch Rexroth	INK-0653	Orange RAL 2003	11,5	148,0	254,0	17
76103	(4 G 1,5 + 2 x (2 x 0,5))	-	-	Orange RAL 2003	12,4	145,0	250,0	17
73579	(4 G 1,5 + 2 x (2 x 1,0))	-	-	Orange RAL 2003	12,6	182,0	262,0	16
700561	(4 G 1,5 + 2 x (2 x 0,75))	Bosch Rexroth	INK-0650	Orange RAL 2003	12,2	170,0	290,0	16
73580	(4 G 2,5 + 2 x (2 x 1,0))	Bosch Rexroth	INK-0602	Orange RAL 2003	14,6	229,0	336,0	14
78955	(4 G 2,5 + 2 x (2 x 1,5))	-	-	Orange RAL 2003	15,6	241,0	350,0	14
74094	(4 G 4 + 2 x (2 x 1,0))	-	-	Orange RAL 2003	16,2	312,0	475,0	12
700562	(4 G 4 + (2 x 1,0) + (2 x 1,5))	Bosch Rexroth	INK-0603	Orange RAL 2003	16,0	318,0	485,0	12
78956	(4 G 4 + 2 x (2 x 1,5))	-	-	Orange RAL 2003	16,7	324,0	490,0	12
74095	(4 G 6 + 2 x (2 x 1,0))	-	-	Orange RAL 2003	18,2	376,0	606,0	10
700563	(4 G 6 + (2 x 1,0) + (2 x 1,5))	Bosch Rexroth	INK-0604	Orange RAL 2003	18,8	398,0	615,0	10
78957	(4 G 6 + 2 x (2 x 1,5))	-	-	Orange RAL 2003	19,0	450,0	621,0	10
74096	(4 G 10 + 2 x (2 x 1,0))	-	-	Orange RAL 2003	21,5	609,0	905,0	8
700564	(4 G 10 + (2 x 1,0) + (2 x 1,5))	Bosch Rexroth	INK-0605	Orange RAL 2003	22,4	610,0	915,0	8
78958	(4 G 10 + 2 x (2 x 1,5))	-	-	Orange RAL 2003	22,4	625,0	925,0	8
75978	(4 G 16 + 2 x (2 x 1,5))	Bosch Rexroth	INK-0606	Orange RAL 2003	26,9	904,0	1226,0	6
75979	(4 G 25 + 2 x (2 x 1,5))	Bosch Rexroth	INK-0607	Orange RAL 2003	28,0	1323,0	1595,0	4
75980	(4 G 35 + 2 x (2 x 1,5))	Bosch Rexroth	INK-0667	Orange RAL 2003	32,5	1621,0	2196,0	2
700565	(4 G 50 + 2 x (2 x 2,5))	Bosch Rexroth	INK-0668	Orange RAL 2003	37,0	2600,0	3000,0	1

Plastic Cable Glands

HELUTOP® HT cable gland



metric thread

Part no. light grey RAL 7035	Part no. dark grey RAL 7001	Part no. black RAL 9005	Size Metr.	Cable Ø from / to		Thread length		Spanner size		Unit
				mm	in	mm	in	mm	in	
93908	93923	93937	M12 x 1,5	3,0 - 6,5	0.12 - 0.26	6,0	0.24	15	0.59	100
93909	93924	93938	M16 x 1,5	4,0 - 8,0	0.16 - 0.31	8,0	0.31	19	0.75	50
92667	92668	92669	M16 x 1,5	5,0 - 10,0	0.20 - 0.39	10,0	0.39	22	0.87	50
93910	93925	93939	M20 x 1,5	6,0 - 12,0	0.24 - 0.47	10,0	0.39	24	0.94	50
93911	93926	93940	M25 x 1,5	11,0 - 17,0	0.43 - 0.67	8,0	0.31	29	1.14	50
93912	93927	93941	M32 x 1,5	15,0 - 21,0	0.59 - 0.83	10,0	0.39	36	1.42	25
93913	93928	93942	M40 x 1,5	19,0 - 28,0	0.75 - 1.10	10,0	0.39	46	1.81	20
93914	93929	93943	M50 x 1,5	30,0 - 38,0	1.18 - 1.50	18,0	0.71	60	2.36	10
93915	93930	93944	M63 x 1,5	34,0 - 44,0	1.34 - 1.73	18,0	0.71	65	2.56	10

PG thread

Part no. light grey RAL 7035	Part no. dark grey RAL 7001	Part no. black RAL 9005	Size PG	Cable Ø from / to		Thread length		Spanner size		Unit
				mm	in	mm	in	mm	in	
99300	99310	99320	7	3,0 - 6,5	0.12 - 0.26	8,0	0.31	15	0.59	100
99301	99311	99321	9	4,0 - 8,0	0.16 - 0.31	8,0	0.31	19	0.75	50
99302	99312	99322	11	5,0 - 10,0	0.20 - 0.39	8,0	0.31	22	0.87	50
99303	99313	99323	13,5	6,0 - 12,0	0.24 - 0.47	9,0	0.35	24	0.94	50
99304	99314	99324	16	10,0 - 14,0	0.39 - 0.55	10,0	0.39	27	1.06	50
99305	99315	99325	21	13,0 - 18,0	0.51 - 0.71	11,0	0.43	33	1.30	25
99306	99316	99326	29	18,0 - 25,0	0.71 - 0.98	11,0	0.43	42	1.65	20
99307	99317	99327	36	22,0 - 32,0	0.87 - 1.26	13,0	0.51	53	2,09	10
99308	99318	99328	42	30,0 - 38,0	1.18 - 1.50	13,0	0.51	60	2.36	10
99309	99319	99329	48	34,0 - 44,0	1.34 - 1.73	14,0	0.55	65	2.56	10

NPT thread

Part no. light grey RAL 7035	Part no. dark grey RAL 7001	Part no. black RAL 9005	Size NPT	Cable Ø from / to		Thread length		Spanner size		Unit
				mm	in	mm	in	mm	in	
92780	92790	92800	3/8"	5,0 - 10,0	0.12 - 0.39	15,0	0.59	22	0.87	50
92781	92791	92801	1/2"	6,0 - 12,0	0.24 - 0.47	15,0	0.59	24	0.94	50
92782	92792	92802	1/2"	10,0 - 14,0	0.20 - 0.55	15,0	0.59	27	1.06	50
92783	92793	92803	3/4"	14,0 - 18,0	0.55 - 0.71	15,0	0.59	33	1.30	25
92784	92794	92804	1"	18,0 - 25,0	0.71 - 0.98	18,0	0.71	42	1.65	20

HELUTOP® HT-MS cable gland



metric thread

Part no.	Size Metr.	Cable Ø from / to		Thread length		Spanner size		Unit
		mm	in	mm	in	mm	in	
90760	M12x 1,5	3,0 - 6,5	0.12 - 0.26	6,0	0.24	14	0.55	50
99960	M16x 1,5	5,0 - 10,0	0.20 - 0.39	7,0	0.28	20	0.79	50
90762	M20x 1,5	6,0 - 12,0	0.24 - 0.47	8,0	0.31	22	0.87	50
99961	M25x 1,5	11,0 - 17,0	0.43 - 0.67	8,0	0.31	27	1.06	25
94624	M32x 1,5	15,0 - 21,0	0.59 - 0.83	8,0	0.31	34	1.34	20
99962	M40x 1,5	19,0 - 28,0	0.75 - 1.10	9,0	0.35	43	1.69	5
99963	M50x 1,5	30,0 - 38,0	1.18 - 1.50	9,0	0.35	58	2.28	5
90767	M63x 1,5	34,0 - 44,0	1.34 - 1.73	14,0	0.55	64/ 68	2.52/ 2.68	5
906199	M63x 1,5	44,0 - 55,0	1.73 - 2.17	10,0	0.39	75	2.95	5

PG thread

Part no.	Size PG	Cable Ø from / to		Thread length		Spanner size		Unit
		mm	in	mm	in	mm	in	
90750	7	3,0 - 6,5	0.12 - 0.26	5,0	0.20	14	0.55	50
90751	9	4,0 - 8,0	0.16 - 0.31	6,0	0.24	17	0.67	50
90752	11	5,0 - 10,0	0.20 - 0.39	6,0	0.24	20	0.79	50
90753	13,5	6,0 - 12,0	0.24 - 0.47	6,5	0.26	22	0.87	50
90754	16	10,0 - 14,0	0.39 - 0.55	6,5	0.26	24	0.94	25
90755	21	13,0 - 18,0	0.51 - 0.71	7,0	0.28	30	1.18	25
90756	29	18,0 - 25,0	0.71 - 0.98	8,0	0.31	40	1.57	20
90757	36	22,0 - 32,0	0.87 - 1.26	9,0	0.35	50	1.97	5
90758	42	32,0 - 38,0	1.26 - 1.50	14,0	0.55	58	2.28	5
90759	48	37,0 - 44,0	1.46 - 1.73	14,0	0.55	64	2.52	5

NPT thread

Part no.	Size NPT	Cable Ø from / to		Thread length		Spanner size		Unit
		mm	in	mm	in	mm	in	
99965	3/8"	5,0 - 10,0	0.20 - 0.39	15,0	0.59	20	0.79	50
99966	1/2"	6,0 - 12,0	0.24 - 0.47	15,0	0.59	22	0.87	50
99967	3/4"	13,0 - 18,0	0.51 - 0.71	15,0	0.59	27	1.06	25
99968	1"	18,0 - 25,0	0.71 - 0.98	17,0	0.59	34	1.34	10

HELUTOP® MS-EP4 EMC cable gland



metric thread

Part no.	Size Metr.	Cable Ø from / to		Thread length		Spanner size		Unit
		mm	in	mm	in	mm	in	
905181	M12 x 1,5	3,0 - 6,5	0.12 - 0.26	6,0	0.24	14	0.55	50
905182	M16 x 1,5	5,0 - 10,0	0.20 - 0.39	6,0	0.24	20	0.79	50
905183	M20 x 1,5	6,0 - 12,0	0.24 - 0.47	6,0	0.24	22	0.87	50
905184	M20 x 1,5	7,5 - 14,0	0.30 - 0.55	8,0	0.31	24	0.94	50
905185	M25 x 1,5	10,0 - 18,0	0.39 - 0.71	8,0	0.31	30	1.18	25
905186	M32 x 1,5	16,0 - 25,0	0.63 - 0.98	9,0	0.35	40	1.57	25
905187	M40 x 1,5	22,0 - 32,0	0.87 - 1.26	9,0	0.35	50	1.97	20
905188	M50 x 1,5	30,0 - 38,0	1.18 - 1.50	9,0	0.35	60/ 58	2.36/ 2.28	10
905189	M63 x 1,5	34,0 - 44,0	1.34 - 1.73	14,0	0.55	64/ 68	2.52/ 2.68	5
905248	M63 x 1,5	37,0 - 53,0	1.46 - 2.09	10,0	0.55	75	2.95	5



Additional Cable Glands

For more information on our entire cable gland range, please see our Cable Accessories catalog or visit helukabel.com.

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