Offshore Power Cables

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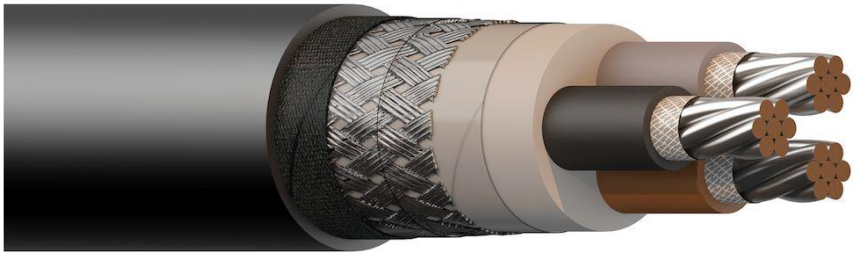
BFOU M 0,6/1(1.2)KV P5/P12/P105

MGT/EPR/EPR/TCWB/SHF2

Fire resistant Halogenfree Power Cable. MUD resistant.



Application

Armoured Fire resistant, flame retardant halogen-free power cable.
Fixed installation for power, control, and lighting in both EX (Zone 0, 1 & 2)- and safe areas, emergency and critical systems where requirement for fire resistance exists.
BFOU M 1kV for installation in areas exposed to MUD and drilling/cleaning fluids.
Meets the Oil & Mud resistance requirement in NEK TS 606:2022.

SHF2 outer sheath to IEC 60092-360 is a flame retardant halogen-free thermoset EVA rubber.

Offshore, Oil & Gas.

Cable construction

Conductor material	Copper
Conductor surface	Tinned
Core insulation material	Mica + polymer
Core identification (acc. HD 308 S2)	Yes
Armouring/reinforcement	Braiding
Armouring	Yes
Armouring/reinforcement material	Copper, tinned
Material inner sheath	Halogenfree polymer
Material outer sheath	EVA rubber
Cable shape	Round
Max. conductor temperature [°C]	90
Max. conductor temperature at short circuit [°C]	250

Marking text on Outer Sheath (example)

"meter" "year/week" DRAKA 01 Part no. BFOU M 0,6/1kV P105 3 x 16/16 mm2 FLEX - FLAME IEC 60331-1*) or IEC 60331-2*) IEC 60331-21**) IEC 60332-3-22 Production no.

*) IEC 60331-1 for cables with an overall diameter exceeding 20 mm and IEC 60331-2 for cables with an overall diameter not exceeding 20 mm **) IEC 60331-21 also at enhanced temperature 1000°C for 180 minutes

Core identification power cables
Single core - Black
Two cores - Blue - Brown
Three cores - Brown - Black - Grey
Four cores - Blue - Brown - Black - Grey
Five cores - Blue - Brown - Black - Grey - Black
Seven cores and above – White cores with black numbers
Two cores + earth (3G) - Yellow/green - Blue - Brown
Three cores + earth (4G) - Yellow/green - Brown - Black - Grey
Four cores + earth (5G) - Yellow/green - Blue - Brown - Black - Grey
G / X in cable description - G = One of the cores is Yellow/Green - X = no Yellow/Green core
Core colours in acc. with HD308S2 and IEC 60445 Ed 5.0 2010-08

Standards applied

NEK TS 606:2022	Cables for offshore installations
IEC 60092-353	Design standard
IEC 60228 Class 2 or class 5	Conductors
IEC 60092-360	Insulation and sheath
IEC 60092-350	General construction and test methods for power, control and instrumentation cables for shipboard and offshore applications
IEC 61892-4 Table 4	Current rating at 45°C ambient temperature IEC 61892-4 Table 4
IEC 60331-1/2 and IEC 60331-21	Fire resistant properties: IEC 60331-1 & -2 (120 minutes @ 830°C), IEC 60331-21 (180 minutes @ 1000°C)
IEC 60332-1-2 and IEC 60332-3-22(Cat.A)	Flame retardant properties
IEC 60754-1 and IEC 60754-2	Halogen free properties: IEC 60754-1 (pH ≥ 4,3, Conductivity ≤ 10µS), IEC 60754-2 (< 0,5% Halogen)
IEC 61034-1, -2	Low smoke properties: IEC 61034-1, -2 (minimum 60% light transmittance)
Oil resistant IEC 60092-360	IRM 902 oil (168 hours @ 100°C)
MUD resistant (IEC 60092-360 & NEK TS 606)	IRM 903 oil (168 hours @ 100°C), Calcium Bromide Brine (56 days @ 70°C), EDC 95-11 base oil (56 days @ 70°C)
ISO 4892 part 3	UV and Ozone resistance

Application properties

Test voltage [kV]	8.4
Rated voltage U0/U (Um)	0.6/1 (1.2) kV
Min. outer temperature, fixed installation [°C]	-52
Max. outer temperature, fixed installation [°C]	75
Low temperature resistant (acc. EN 60811-504+505+506)	Yes
Outdoor installation	Yes
Min. outer temperature during installation [°C]	-20
Max. outer temperature during installation [°C]	50
Suitable as installation cable	Yes
Bending radius (rule)	8 x OD (cable overall diameter) during installation 6 x OD (cable overall diameter) fixed installed
Certified for shipboard application	Yes

Product range

SAP code	Basic construction	Nominal electrical copper cross section armouring [mm²]	Colour outer steath	Conductor category	EL no.	EAN-code (GTIN)	Semco Part Code
20120052	1x16/4mm²	4	Black	Class 2 = stranded	1043605	7021528002003	8048967
20110496	1x25/4mm²	4	Black	Class 2 = stranded	20110496	7021528002010	8049223
20167406	1x35/6mm²	6	Black	Class 2 = stranded	20167406	7021528002027	8069591
20110497	1x50/10mm²	10	Black	Class 2 = stranded	1043608	7021528002034	8000105
20172941	1x50/10mm² Cl5	10	Black	Class 5 = flexible	20172941	7021528070033	On request
20110498	1x70/10mm²	10	Black	Class 2 = stranded	1043609	7021528002041	8000113
20110499	1x95/10mm²	10	Black	Class 2 = stranded	1043610	7021528002058	8001663
20174003	1x95/10mm² Cl5	10	Black	Class 5 = flexible	20174003	7021528070057	On request
20110500	1x120/10mm²	10	Black	Class 2 = stranded	1043611	7021528002065	8018058
20172942	1x120/10mm² Cl5	10	Black	Class 5 = flexible	20172942	7021528070064	On request
20110501	1x150/16mm²	16	Black	Class 2 = stranded	1043612	7021528002072	8001293
20110502	1x185/16mm²	16	Black	Class 2 = stranded	1043613	7021528002089	8001294
20110503	1x240/16mm²	16	Black	Class 2 = stranded	20110503	7021528002096	8018061
20109432	1x300/16mm²	16	Black	Class 2 = stranded	1043615	7021528002102	8000085
20132148	1x400/25mm²	25	Black	Class 2 = stranded	20132148	7021528002119	On request
20298574	1x500/35mm²	35	Black	Class 2 = stranded	20298574	7021528002126	On request
20204148	1x630/35mm²	35	Black	Class 2 = stranded	20204148	7021528002133	On request
20110504	2x1.5/4mm²	4	Black	Class 2 = stranded	1043620	7021528002157	8000131
20110515	2x2.5/4mm²	4	Black	Class 2 = stranded	1043621	7021528002294	8000140
20266581	2x2.5/6mm²	6	Black	Class 2 = stranded	20266581	7021528878790	On request
20110526	2x4/6mm²	6	Black	Class 2 = stranded	1043622	7021528002454	8000173
20110530	2x6/6mm²	6	Black	Class 2 = stranded	1043623	7021528002515	8000179
20110536	2x10/10mm²	10	Black	Class 2 = stranded	1043624	7021528002577	8000135
20222967	2x10/10mm² CL5	10	Black	Class 5 = flexible	20222967	7021528006575	On request
20109436	2x16/16mm²	16	Black	Class 2 = stranded	1043625	7021528002638	8000137
20110547	2x25/16mm²	16	Black	Class 2 = stranded	1043626	7021528002690	8043053
20110762	2x35/16mm²	16	Black	Class 2 = stranded	1043627	7021528002751	On request
20121221	2x50/25mm²	25	Black	Class 2 = stranded	20121221	7021528002812	On request
20110554	2x70/35mm²	35	Black	Class 2 = stranded	1043629	7021528002874	8066092

Product range

SAP code	Basic construction	Nominal electrical copper cross section armouring [mm²]	Colour outer steath	Conductor category	EL no.	EAN-code (GTIN)	Semco Part Code
20115558	2x95/50mm²	50	Black	Class 2 = stranded	20115558	7021528002942	On request
20132308	2x120/60mm²	60	Black	Class 2 = stranded	20132308	7021528003000	On request
20110505	3G1,5mm²		Black	Class 2 = stranded	1043619	7021528002164	8000134
20110507	3x1.5/4mm²	4	Black	Class 2 = stranded	1043640	7021528002188	8000189
20222965	3x1.5/6mm² Cl5	6	Black	Class 5 = flexible	20222965	7021528006186	On request
20110516	3G2,5mm²		Black	Class 2 = stranded	1043639	7021528002300	8000143
20110517	3x2.5/6mm²	6	Black	Class 2 = stranded	1043641	7021528002324	8000212
20110527	3x4/6mm²	6	Black	Class 2 = stranded	1043642	7021528002461	8000230
20110529	3G4mm²		Black	Class 2 = stranded	20110529	7021528002508	8000176
20110533	3G6mm²		Black	Class 2 = stranded	20110533	7021528002546	8000183
20110531	3x6/6mm²	6	Black	Class 2 = stranded	1043643	7021528002522	8000243
20110537	3x10/10mm²	10	Black	Class 2 = stranded	1043644	7021528002584	8000196
20110539	3G10mm²		Black	Class 2 = stranded	20110539	7021528002607	8000136
20110544	3G16mm²		Black	Class 2 = stranded	20110544	7021528002669	8000138
20110542	3x16/16mm²	16	Black	Class 2 = stranded	1043645	7021528002645	8006564
20158156	3G25mm²		Black	Class 2 = stranded	20158156	7021528002744	8065985
20110548	3x25/16mm²	16	Black	Class 2 = stranded	1043646	7021528002706	8000217
20204127	3G35mm²		Black	Class 2 = stranded	20204127	7021528002782	8003363
20110550	3x35/16mm²	16	Black	Class 2 = stranded	1043647	7021528002768	8000226
20206669	3x35/16mm² Cl5	16	Black	Class 5 = flexible	20206669	7021528070767	On request
20110552	3x50/25mm²	25	Black	Class 2 = stranded	1043648	7021528002829	8000235
20223926	3x50/25mm² Cl5	25	Black	Class 5 = flexible	20223926	7021528006827	On request
20109437	3x70/35mm²	35	Black	Class 2 = stranded	1043649	7021528002881	8000246
20169174	3x70/35mm² Cl5	35	Black	Class 5 = flexible	20169174	7021528070880	On request
20109440	3x95/50mm²	50	Black	Class 2 = stranded	1043650	7021528002959	8000249
20109443	3x120/60mm²	60	Black	Class 2 = stranded	1043651	7021528003017	8001730
20109444	3x150/75mm² *)	75	Black	Class 2 = stranded	1043652	7021528003024	8000203
20168929	3x150/75mm² Cl5 *)	75	Black	Class 5 = flexible	20168929	7021528007022	On request
20110765	3x185/95mm² *)	95	Black	Class 2 = stranded	20110765	7021528003925	On request
20168931	3x185/95mm² Cl5 *)	95	Black	Class 5 = flexible	20168931	7021528007923	On request
20164029	3x240/120mm² *)	120	Black	Class 2 = stranded	20164029	7021528003147	On request

Product range

SAP code	Basic construction	Nominal electrical copper cross section armouring [mm²]	Colour outer steath	Conductor category	EL no.	EAN-code (GTIN)	Semco Part Code
20168930	3x240/120mm² Cl5 *)	120	Black	Class 5 = flexible	20168930	7021528007145	On request
20110508	4x1.5/6mm²	6	Black	Class 2 = stranded	1043660	7021528002195	8000256
20110506	4G1,5mm²		Black	Class 2 = stranded	20110506	7021528002171	8000194
20110519	4x2.5/6mm²	6	Black	Class 2 = stranded	1043661	7021528002355	8000264
20110518	4G2,5 mm²		Black	Class 2 = stranded	1043659	7021528002331	8000214
20110528	4x4/6mm²	6	Black	Class 2 = stranded	1043662	7021528002478	8000298
20110524	4G4mm²		Black	Class 2 = stranded	20110524	7021528002430	8000233
20110532	4x6/10mm²	10	Black	Class 2 = stranded	1043663	7021528002539	8000301
20110534	4G6mm²		Black	Class 2 = stranded	20110534	7021528002553	8002719
20266582	4x6/6mm²	6	Black	Class 2 = stranded	20266582	7021528878806	On request
20110540	4G10mm²		Black	Class 2 = stranded	20110540	7021528002614	8000198
20110538	4x10/10mm²	10	Black	Class 2 = stranded	1043664	7021528002591	8000260
20354799	4x10/10mm² Cl5	10	Black	Class 5 = flexible	20354799	7021528006599	On request
20110546	4G16mm²		Black	Class 2 = stranded	20110546	7021528002683	8003364
20110543	4x16/16mm²	16	Black	Class 2 = stranded	1043665	7021528002652	8000262
20110549	4x25/16mm²	16	Black	Class 2 = stranded	1043666	7021528002713	8000271
20172200	4G25mm²		Black	Class 2 = stranded	20172200	7021528002720	8001765
20158157	4G35mm²		Black	Class 2 = stranded	20158157	7021528002799	8002280
20110551	4x35/16mm²	16	Black	Class 2 = stranded	1043667	7021528002775	8007955
20168720	4x35/16mm² Cl5	16	Black	Class 5 = flexible	20168720	7021528070774	On request
20196609	4G50mm²		Black	Class 2 = stranded	20196609	7021528002850	8000241
20110553	4x50/25mm²	25	Black	Class 2 = stranded	1043668	7021528002836	8001576
20184102	4G70mm²		Black	Class 2 = stranded	20184102	7021528002904	8044456
20109438	4x70/35mm²	35	Black	Class 2 = stranded	1043669	7021528002898	8024919
20109441	4x95/50mm²	50	Black	Class 2 = stranded	1043670	7021528002966	8042343
20110764	4G95mm²		Black	Class 2 = stranded	20110764	7021528002973	On request
20204134	4G120mm²		Black	Class 2 = stranded	20204134	7021528003062	On request
20120715	4x120/60mm²	60	Black	Class 2 = stranded	20120715	7021528003048	On request
20204147	4G150mm²		Black	Class 2 = stranded	20204147	7021528003079	8000204
20117948	4x150/75mm² *)	75	Black	Class 2 = stranded	20117948	7021528003093	On request

Product range

SAP code	Basic construction	Nominal electrical copper cross section armouring [mm²]	Colour outer steath	Conductor category	EL no.	EAN-code (GTIN)	Semco Part Code
20121096	4G185mm²		Black	Class 2 = stranded	20121096	7021528003109	On request
20118466	4x185/95mm² *)	95	Black	Class 2 = stranded	20118466	7021528003918	On request
20110513	5G1,5mm²		Black	Class 2 = stranded	20110513	7021528002263	8000259
20110509	5x1.5/6mm²	6	Black	Class 2 = stranded	1043705	7021528002201	8055551
20121182	5x2.5/6mm²	6	Black	Class 2 = stranded	20121182	7021528002348	8026125
20110523	5G2,5mm²		Black	Class 2 = stranded	1043755	7021528002423	8000268
20110525	5G4mm²		Black	Class 2 = stranded	20110525	7021528002447	8002411
20110535	5G6mm²		Black	Class 2 = stranded	20110535	7021528002560	8000303
20110541	5G10mm²		Black	Class 2 = stranded	20110541	7021528002621	8000261
20110545	5G16mm²		Black	Class 2 = stranded	20110545	7021528002676	8000263
20133369	5G25mm²		Black	Class 2 = stranded	20133369	7021528002737	8000270
20110763	5G35mm²		Black	Class 2 = stranded	20110763	7021528002805	8001302
20204128	5G50mm²		Black	Class 2 = stranded	20204128	7021528002843	8000300
20109439	5x70/35mm²	35	Black	Class 2 = stranded	20109439	7021528002935	On request
20204129	5G70mm²		Black	Class 2 = stranded	20204129	7021528002911	8000305
20109442	5G95mm²		Black	Class 2 = stranded	20109442	7021528002980	8003272
20432722	5G120mm²		Black	Class 2 = stranded	20432722	7021528003208	On request
20132888	5G150mm²		Black	Class 2 = stranded	20132888	7021528003185	8108332
20110510	7x1.5/6mm²	6	Black	Class 2 = stranded	1043707	7021528002218	8000314
20296758	7G1,5mm²		Black	Class 2 = stranded	20296758	7021528003222	On request
20110520	7x2.5/10mm²	10	Black	Class 2 = stranded	1043757	7021528002379	8000316
20110514	7G2,5mm²		Black	Class 2 = stranded	20110514	7021528002287	On request
20296364	8x2,5/10mm²	10	Black	Class 2 = stranded	20296364	7021528002317	On request
20166001	8x4/10mm²	10	Black	Class 2 = stranded	20166001	7021528002492	On request
20109433	12x1.5/10mm²	10	Black	Class 2 = stranded	1043712	7021528002225	8000010
20296757	12G1,5mm²		Black	Class 2 = stranded	20296757	7021528003215	On request
20222966	12x1.5/10mm² Cl5	10	Black	Class 5 = flexible	20222966	7021528006223	On request
20110521	12x2.5/10mm²	10	Black	Class 2 = stranded	1043762	7021528002386	8001290
20110511	19x1.5/10mm²	10	Black	Class 2 = stranded	1043719	7021528002232	8000051
20110522	19x2.5/16mm²	16	Black	Class 2 = stranded	1043769	7021528002393	8001550

Product range

SAP code	Basic construction	Nominal electrical copper cross section armouring [mm²]	Colour outer steath	Conductor category	EL no.	EAN-code (GTIN)	Semco Part Code
20218690	24x4/16mm²	16	Black	Class 2 = stranded	20218690	7021528003192	On request
20233143	25G1,5mm² Cl5		Black	Class 5 = flexible	20233143	7021528007206	On request
20110512	27x1.5/10mm²	10	Black	Class 2 = stranded	1043727	7021528002249	8001298
20112294	27x2.5/16mm²	16	Black	Class 2 = stranded	1043777	7021528002409	8002886
20109434	37x1.5/16mm²	16	Black	Class 2 = stranded	1043737	7021528002256	8065984
20109435	37x2.5/25mm²	25	Black	Class 2 = stranded	1043787	7021528002416	On request

*) These cables have double braids (see under Basic construction)

Dimensional data Part 1

SAP code	Basic construction	Diameter conductor [mm]	Nominal thickness insulation [mm]	Nominal diameter over insulation [mm]	Nominal thickness inner sheath [mm]	Nominal diameter over inner sheath [mm]	Tolerance diameter inner sheath [±mm]
20120052	1x16/4mm²	5	1	7.3	1.1	9.5	0.5
20110496	1x25/4mm²	6.3	1.2	9	1.1	11	0.8
20167406	1x35/6mm²	7.4	1.2	10.1	1.1	12.5	0.8
20110497	1x50/10mm²	8.75	1.4	11.8	1.1	14	0.8
20172941	1x50/10mm² Cl5	10.65	1.4	13.9	1.1	16	0.8
20110498	1x70/10mm²	10.6	1.4	13.6	1.1	16	0.8
20110499	1x95/10mm²	12.35	1.6	15.8	1.1	18	0.8
20174003	1x95/10mm² Cl5	13.3	1.6	17	1.1	19.5	0.8
20110500	1x120/10mm²	14	1.6	17.4	1.1	20	0.8
20172942	1x120/10mm² Cl5	16.6	1.6	20.4	1.1	22.5	1
20110501	1x150/16mm²	15.45	1.8	19.3	1.1	22	1
20110502	1x185/16mm²	17.3	2	21.4	1.1	24	1
20110503	1x240/16mm²	19.85	2.2	24.4	1.1	27	1
20109432	1x300/16mm²	22.25	2.4	27.1	1.1	29.5	1
20132148	1x400/25mm²	26	2.6	31.4	1.1	34	1.5
20298574	1x500/35mm²	29	2.8	34.6	1.1	37	1.5
20204148	1x630/35mm²	32.8	2.8	38.4	1.1	40.5	2
20110504	2x1.5/4mm²	1.6	1	3.8	1.1	10	0.5
20110515	2x2.5/4mm²	2	1	4.2	1.1	10.5	0.8
20266581	2x2.5/6mm²	2	1	4.2	1.1	11	0.8
20110526	2x4/6mm²	2.5	1	4.7	1.1	11.5	0.8
20110530	2x6/6mm²	3.1	1	5.3	1.1	13	0.8
20110536	2x10/10mm²	4	1	6.2	1.1	14.5	0.8
20222967	2x10/10mm² CL5	4.3	1	6.6	1.1	15.5	0.8
20109436	2x16/16mm²	5	1	7.3	1.1	17	0.8
20110547	2x25/16mm²	6.3	1.2	9	1.2	20.5	1
20110762	2x35/16mm²	7.4	1.2	10.1	1.1	22.5	1
20121221	2x50/25mm²	8.75	1.4	11.8	1.1	26	1
20110554	2x70/35mm²	10.6	1.4	13.6	1.1	29.5	1

Dimensional data Part 1

SAP code	Basic construction	Diameter conductor [mm]	Nominal thickness insulation [mm]	Nominal diameter over insulation [mm]	Nominal thickness inner sheath [mm]	Nominal diameter over inner sheath [mm]	Tolerance diameter inner sheath [±mm]
20115558	2x95/50mm²	12.35	1.6	15.8	1.4	34.5	1.5
20132308	2x120/60mm²	14	1.6	17.4	1.4	38	1.5
20110505	3G1,5mm²	1.6	1	3.8	1.1	10.5	0.8
20110507	3x1.5/4mm²	1.6	1	3.8	1.1	10.5	0.8
20222965	3x1.5/6mm² Cl5	1.6	1	3.9	1.1	10.5	0.8
20110516	3G2,5mm²	2	1	4.2	1.1	11	0.8
20110517	3x2.5/6mm²	2	1	4.2	1.1	11	0.8
20110527	3x4/6mm²	2.5	1	4.7	1.1	12.5	0.8
20110529	3G4mm²	2.5	1	4.7	1.1	12.5	0.8
20110533	3G6mm²	3.1	1	5.3	1.1	13.5	0.8
20110531	3x6/6mm²	3.1	1	5.3	1.1	13.5	0.8
20110537	3x10/10mm²	4	1	6.2	1.1	15.5	0.8
20110539	3G10mm²	4	1	6.2	1.1	15.5	0.8
20110544	3G16mm²	5.05	1	7.3	1.1	18	0.8
20110542	3x16/16mm²	5.05	1	7.3	1.1	18	0.8
20158156	3G25mm²	6.3	1.2	9	1.2	22	1
20110548	3x25/16mm²	6.3	1.2	9	1.2	22	1
20204127	3G35mm²	7.4	1.2	10.1	1.1	24	1
20110550	3x35/16mm²	7.4	1.2	10.1	1.1	24.5	1
20206669	3x35/16mm² Cl5	8.45	1.2	11.3	1.2	27	1
20110552	3x50/25mm²	8.75	1.4	11.8	1.1	27.5	1
20223926	3x50/25mm² Cl5	8.75	1.4	13.9	1.2	32.5	1.5
20221403	3G70mm²	10.6	1.4	13.6	1.1	32	1.5
20109437	3x70/35mm²	10.6	1.4	13.6	1.1	32	1.5
20169174	3x70/35mm² Cl5	12.3	1.4	15.5	1.4	36.5	1.5
20109440	3x95/50mm²	12.35	1.6	15.8	1.4	37	1.5
20109443	3x120/60mm²	14	1.6	17.4	1.4	41	2
20168929	3x150/75mm² Cl5 *)	16.6	1.6	20.3	1.6	47.5	2
20109444	3x150/75mm² *)	15.45	1.8	19.3	1.4	45	2
20168929	3x150/75mm² Cl5 *)	17.8	1.8	22	1.8	51.5	2.5
20110765	3x185/95mm² *)	17.3	2	21.4	1.4	49.5	2

Dimensional data Part 1

SAP code	Basic construction	Diameter conductor [mm]	Nominal thickness insulation [mm]	Nominal diameter over insulation [mm]	Nominal thickness inner sheath [mm]	Nominal diameter over inner sheath [mm]	Tolerance diameter inner sheath [±mm]
20168931	3x185/95mm² Cl5 *)	18.6	2	23.2	1.8	54	2.5
20164029	3x240/120mm² *)	19.85	2.2	24.4	1.4	56	2.5
20168930	3x240/120mm² Cl5 *)	22	2.2	27	2	62.5	3
20110508	4x1.5/6mm²	1.6	1	3.8	1.1	11.5	0.8
20110506	4G1,5mm²	1.6	1	3.8	1.1	11.5	0.8
20110519	4x2.5/6mm²	2	1	4.2	1.1	12.5	0.8
20110518	4G2,5 mm²	2	1	4.2	1.1	12.5	0.8
20110528	4x4/6mm²	2.5	1	4.7	1.1	13.5	0.8
20110524	4G4mm²	2.5	1	4.7	1.1	13.5	0.8
20110532	4x6/10mm²	3.1	1	5.3	1.1	15	0.8
20110534	4G6mm²	3.1	1	5.3	1.1	15	0.8
20266582	4x6/6mm²	3.1	1	5.3	1.1	15	0.8
20110540	4G10mm²	4	1	6.2	1.1	17.5	0.8
20110538	4x10/10mm²	4	1	6.2	1.1	17.5	0.8
20354799	4x10/10mm² Cl5	4.3	1	6.6	1.1	18.5	0.8
20110546	4G16mm²	5.05	1	7.3	1.2	20	1
20110543	4x16/16mm²	5.05	1	7.3	1.2	20	1
20110549	4x25/16mm²	6.3	1.2	9	1.2	24.5	1
20172200	4G25mm²	6.3	1.2	9	1.2	24.5	1
20158157	4G35mm²	7.4	1.2	10.1	1.1	27	1
20110551	4x35/16mm²	7.4	1.2	10.1	1.1	27	1
20168720	4x35/16mm² Cl5	8.45	1.2	11.3	1.2	30	1.5
20196609	4G50mm²	8.75	1.4	11.8	1.1	30.5	1.5
20110553	4x50/25mm²	8.75	1.4	11.8	1.1	30.5	1.5
20184102	4G70mm²	10.6	1.4	13.6	1.1	35.5	1.5
20109438	4x70/35mm²	10.6	1.4	13.6	1.1	35.5	1.5
20109441	4x95/50mm²	12.35	1.6	15.8	1.4	41	2
20110764	4G95mm²	12.35	1.6	15.8	1.4	41	2
20204134	4G120mm²	14	1.6	17.4	1.4	45.5	2
20120715	4x120/60mm²	14	1.6	17.4	1.4	45.5	2

Dimensional data Part 1

SAP code	Basic construction	Diameter conductor [mm]	Nominal thickness insulation [mm]	Nominal diameter over insulation [mm]	Nominal thickness inner sheath [mm]	Nominal diameter over inner sheath [mm]	Tolerance diameter inner sheath [±mm]
20204147	4G150mm²	15.45	1.8	19.3	1.4	50	2
20117948	4x150/75mm² *)	15.45	1.8	19.3	1.4	50	2
20121096	4G185mm²	17.3	2	21.4	1.4	55	2.5
20118466	4x185/95mm² *)	17.3	2	21.4	1.4	55	2.5
20110513	5G1,5mm²	1.6	1	3.8	1.1	12.5	0.8
20110509	5x1.5/6mm²	1.6	1	3.8	1.1	12.5	0.8
20121182	5x2.5/6mm²	2	1	4.2	1.1	13.5	0.8
20110523	5G2,5mm²	2	1	4.2	1.1	13.5	0.8
20110525	5G4mm²	2.5	1	4.7	1.1	15	0.8
20110535	5G6mm²	3.1	1	5.3	1.1	16.5	0.8
20110541	5G10mm²	4	1	6.2	1.1	19	0.8
20110545	5G16mm²	5.05	1	7.3	1.2	22	1
20133369	5G25mm²	6.3	1.2	9	1.2	27	1
20110763	5G35mm²	7.4	1.2	10.1	1.1	29.5	1
20204128	5G50mm²	8.75	1.4	11.8	1.1	34	1.5
20109439	5x70/35mm²	10.6	1.4	13.6	1.1	39	1.5
20204129	5G70mm²	10.6	1.4	13.6	1.1	39	1.5
20109442	5G95mm²	12.35	1.6	15.8	1.4	45.5	2
20432722	5G120mm²	14	1.6	17.4	1.4	50.5	2.5
20132888	5G150mm²	15.45	1.8	19.3	1.4	55.5	2.5
20110510	7x1.5/6mm²	1.6	1	3.8	1.1	13.5	0.8
20296758	7G1,5mm²	1.6	1	3.9	1.1	13.5	0.8
20110520	7x2.5/10mm²	2	1	4.2	1.1	14.5	0.8
20110514	7G2,5mm²	2	1	4.2	1.1	14.5	0.8
20296364	8x2,5/10mm²	2	1	4.2	1.1	18.5	0.8
20166001	8x4/10mm²	2.5	1	4.7	1.1	18	0.8
20109433	12x1.5/10mm²	1.6	1	3.8	1.1	17.5	0.8
20296757	12G1,5mm²	1.6	1	3.9	1.1	17.5	0.8
20222966	19x1.5/10mm²	1.6	1	3.9	1.2	18	0.8
20110521	12x2.5/10mm²	2	1	4.2	1.2	19.5	0.8

Dimensional data Part 1

SAP code	Basic construction	Diameter conductor [mm]	Nominal thickness insulation [mm]	Nominal diameter over insulation [mm]	Nominal thickness inner sheath [mm]	Nominal diameter over inner sheath [mm]	Tolerance diameter inner sheath [±mm]
20110511	19x1.5/10mm²	1.6	1	3.8	1.2	20.5	1
20110522	19x2.5/16mm²	2	1	4.2	1.2	23	1
20218690	24x4/16mm²	2.5	1	4.7	1.4	30.5	1
20233143	25G1,5mm² Cl5	1.6	1	3.9	1.2	25	1
20110512	27x1.5/10mm²	1.6	1	3.8	1.2	25	1
20112294	27x2.5/16mm²	2	1	4.2	1.2	27.5	1
20109434	37x1.5/16mm²	1.6	1	3.8	1.2	28	1
20109435	37x2.5/25mm²	2	1	4.2	1.4	31.5	1.5

*) These cables have double braids (see under Basic construction)

Dimensional data Part 2

SAP code	Basic construction	Diameter braid wire [mm]	Mechanical cross section reinforcement [mm²]	Nominal thickness outer sheath [mm]	Nominal outer diameter [mm]	Tolerance diameter outer sheath [±mm]	Cable weight [kg/km]	Copper weight [kg/km]
20120052	1x16/4mm²	0.2	5.3	1.2	12.5	0.8	362	191
20110496	1x25/4mm²	0.2	6	1.2	14.5	0.8	495	279
20167406	1x35/6mm²	0.3	10.2	1.3	16	0.8	655	401
20110497	1x50/10mm²	0.3	12.7	1.4	18	0.8	835	534
20172941	1x50/10mm² Cl5	0.3	11.9	1.4	20	1	935	572
20110498	1x70/10mm²	0.3	12.7	1.4	19.5	0.8	1,075	731
20110499	1x95/10mm²	0.3	15.3	1.5	22	1	1,385	967
20174003	1x95/10mm² Cl5	0.3	15.3	1.5	23.5	1	1,385	916
20110500	1x120/10mm²	0.3	15.3	1.6	24	1	1,675	1,207
20172942	1x120/10mm² Cl5	0.3	15.3	1.6	27	1	1,810	1,244
20110501	1x150/16mm²	0.3	17.8	1.6	26	1	2,000	1,457
20110502	1x185/16mm²	0.3	17.8	1.7	28.5	1	2,415	1,768
20110503	1x240/16mm²	0.3	20.4	1.8	31.5	0.8	3,050	2,302
20109432	1x300/16mm²	0.3	22.9	1.9	34.5	1.5	3,740	2,866
20132148	1x400/25mm²	0.4	31.7	2.1	39.5	1.5	5,065	3,983
20298574	1x500/35mm²	0.4	40.7	2.2	42.5	2	6,225	4,991
20204148	1x630/35mm²	0.4	40.7	2.3	46.5	2	7,620	6,220
20110504	2x1.5/4mm²	0.2	5.3	1.2	13	0.8	290	78
20110515	2x2.5/4mm²	0.2	5.3	1.2	14	0.8	320	94
20266581	2x2.5/6mm²	0.3	8.5	1.3	14.5	0.8	370	126
20110526	2x4/6mm²	0.3	8.5	1.3	15.5	0.8	435	153
20110530	2x6/6mm²	0.3	10.2	1.3	16.5	0.8	510	207
20110536	2x10/10mm²	0.3	11.9	1.4	18.5	0.8	685	290
20222967	2x10/10mm² CL5	0.3	11.9	1.4	19.5	0.8	730	299
20109436	2x16/16mm²	0.4	18.1	1.5	21	1	945	455
20110547	2x25/16mm²	0.3	17.8	1.6	24.5	1	1,290	614
20110762	2x35/16mm²	0.3	17.8	1.7	26.5	1	1,555	778
20121221	2x50/25mm²	0.4	27.1	1.8	30.5	1.5	2,040	1,086
20110554	2x70/35mm²	0.5	42.4	1.9	35	1.5	2,885	1,630
20115558	2x95/50mm²	0.61	52.6	2.1	40.5	2	3,825	2,153

Dimensional data Part 2

SAP code	Basic construction	Diameter braid wire [mm]	Mechanical cross section reinforcement [mm²]	Nominal thickness outer sheath [mm]	Nominal outer diameter [mm]	Tolerance diameter outer sheath [±mm]	Cable weight [kg/km]	Copper weight [kg/km]
20132308	2x120/60mm²	0.61	63.1	2.2	44.5	2	4,200	2,735
20110505	3G1,5mm²	0.2	5.3	1.2	13.5	0.8	318	92
20110507	3x1.5/4mm²	0.2	5.3	1.2	13.5	0.8	318	92
20222965	3x1.5/6mm² Cl5	0.3	8.5	1.3	14.5	0.8	380	132
20110516	3G2,5mm²	0.3	8.5	1.3	15	0.8	410	146
20110517	3x2.5/6mm²	0.3	8.5	1.3	15	0.8	410	146
20110527	3x4/6mm²	0.3	10.2	1.3	16	0.8	505	202
20110529	3G4mm²	0.3	10.2	1.3	16	0.8	505	202
20110533	3G6mm²	0.3	10.2	1.4	17.5	0.8	605	261
20110531	3x6/6mm²	0.3	10.2	1.4	17.5	0.8	605	261
20110537	3x10/10mm²	0.3	11.9	1.4	19.5	0.8	795	377
20110539	3G10mm²	0.3	11.9	1.4	19.5	0.8	795	377
20110544	3G16mm²	0.3	13.6	1.5	22	1	1,060	551
20110542	3x16/16mm²	0.4	18.1	1.5	22	1	1,110	595
20158156	3G25mm²	0.3	17.8	1.6	26	1	1,540	834
20110548	3x25/16mm²	0.3	17.8	1.6	26	1	1,540	834
20204127	3G35mm²	0.3	17.8	1.7	28.5	1	1,895	1,081
20110550	3x35/16mm²	0.3	17.8	1.7	28.5	1	1,895	1,081
20206669	3x35/16mm² Cl5	0.3	20.4	1.7	31.5	1.5	2,100	1,129
20110552	3x50/25mm²	0.4	27.1	1.9	32.5	1.5	2,535	1,497
20223926	3x50/25mm² Cl5	0.4	31.7	1.9	37.5	1.5	3,020	1,681
20221403	3G70mm²	0.3	22.9	2	36.5	1.5	3,345	2,051
20109437	3x70/35mm²	0.5	42.4	2	37.5	1.5	3,550	2,240
20169174	3x70/35mm² Cl5	0.4	40.7	2	42	2	3,950	2,311
20109440	3x95/50mm²	0.5	49.5	2.2	43	2	4,680	2,945
20109443	3x120/60mm²	0.61	63.1	2.3	47.5	2	5,830	3,799
20168928	3x120/60mm² Cl5	0.61	73.6	2.3	54	2.5	6,590	4,014
20109444	3x150/75mm² *)	0.4	90.5	2.6	52.5	2.5	7,210	4,746
20168929	3x150/75mm² Cl5 *)	0.4	90.4	2.6	59.5	2.5	8,260	5,141
20110765	3x185/95mm² *)	0.5	113	2.7	58	2.5	8,840	5,917

Dimensional data Part 2

SAP code	Basic construction	Diameter braid wire [mm]	Mechanical cross section reinforcement [mm²]	Nominal thickness outer sheath [mm]	Nominal outer diameter [mm]	Tolerance diameter outer sheath [±mm]	Cable weight [kg/km]	Copper weight [kg/km]
20168931	3x185/95mm² Cl5 *)	0.5	113	2.7	62.5	3	9,035	5,643
20164029	3x240/120mm² *)	0.61	147.2	3	65.5	3	11,490	7,825
20168930	3x240/120mm² Cl5 *)	0.61	147.2	3	72.5	3.5	12,640	8,145
20110508	4x1.5/6mm²	0.3	8.5	1.3	15	0.8	400	136
20110506	4G1,5mm²	0.3	8.5	1.3	15	0.8	400	136
20110519	4x2.5/6mm²	0.3	10.2	1.3	16	0.8	480	184
20110518	4G2,5 mm²	0.3	10.2	1.3	16	0.8	480	184
20110528	4x4/6mm²	0.3	10.2	1.4	17.5	0.8	580	236
20110524	4G4mm²	0.3	10.2	1.4	17.5	0.8	580	236
20110532	4x6/10mm²	0.3	11.9	1.4	18.5	0.8	720	331
20110534	4G6mm²	0.3	11.9	1.4	18.5	0.8	720	331
20266582	4x6/6mm²	0.3	11.9	1.4	19	0.8	720	331
20110540	4G10mm²	0.3	13.6	1.5	21	1	965	481
20110538	4x10/10mm²	0.3	11.9	1.5	21	1	965	481
20354799	4x10/10mm² Cl5	0.3	12.7	1.5	22	1	1,010	486
20110546	4G16mm²	0.3	15.3	1.6	24	1	1,305	707
20110543	4x16/16mm²	0.3	17.8	1.6	24	1	1,335	732
20110549	4x25/16mm²	0.3	17.8	1.7	28.5	1	1,875	1,054
20172200	4G25mm²	0.3	17.8	1.7	28.5	1	1,890	1,054
20158157	4G35mm²	0.3	20.4	1.8	31	1.5	2,355	1,408
20110551	4x35/16mm²	0.3	20.4	1.8	31	1.5	2,355	1,408
20168720	4x35/16mm² Cl5	0.3	20.4	1.8	34.5	1.5	2,565	1,438
20196609	4G50mm²	0.3	22.9	2	35.5	1.5	3,065	1,867
20110553	4x50/25mm²	0.4	27.1	2	35.5	1.5	3,110	1,908
20184102	4G70mm²	0.4	36.2	2.2	41	2	4,315	2,789
20109438	4x70/35mm²	0.4	40.7	2.2	41	2	4,360	2,833
20109441	4x95/50mm²	0.5	49.5	2.4	47	2	5,765	3,766
20110764	4G95mm²	0.4	40.7	2.4	47	2	5,765	3,766
20204134	4G120mm²	0.4	45.2	2.5	51.5	2.5	7,000	4,688
20120715	4x120/60mm²	0.61	63.1	2.5	52	2.5	7,190	4,861

Dimensional data Part 2

SAP code	Basic construction	Diameter braid wire [mm]	Mechanical cross section reinforcement [mm²]	Nominal thickness outer sheath [mm]	Nominal outer diameter [mm]	Tolerance diameter outer sheath [±mm]	Cable weight [kg/km]	Copper weight [kg/km]
20204147	4G150mm²	0.5	56.5	2.7	56.5	2.5	8,530	5,703
20117948	4x150/75mm² *)	0.5	99	2.8	58.5	2.5	9,040	6,128
20121096	4G185mm²	0.5	56.5	2.9	62.5	3	10,320	6,961
20118466	4x185/95mm² *)	0.61	113	3	64	3	10,955	7,539
20110513	5G1,5mm²	0.3	10.2	1.3	16	0.8	470	165
20110509	5x1.5/6mm²	0.3	10.2	1.3	16	0.8	475	165
20121182	5x2.5/6mm²	0.3	10.2	1.4	17.5	0.8	550	205
20110523	5G2,5mm²	0.3	10.2	1.4	17.5	0.8	550	205
20110525	5G4mm²	0.3	11.9	1.4	18.5	0.8	680	287
20110535	5G6mm²	0.3	13.6	1.5	20.5	1	860	401
20110541	5G10mm²	0.3	15.3	1.5	23	1	1,155	585
20110545	5G16mm²	0.3	17.8	1.6	26	1	1,550	872
20133369	5G25mm²	0.3	20.4	1.8	31	1.5	2,240	1,299
20110763	5G35mm²	0.3	22.9	1.9	34	1.5	2,805	1,735
20204128	5G50mm²	0.4	36.2	2.1	39	1.5	3,840	2,407
20109439	5x70/35mm²	0.4	40.7	2.3	45	2	5,230	3,442
20204129	5G70mm²	0.4	40.7	2.3	45	2	5,230	3,442
20109442	5G95mm²	0.4	45.2	2.5	51.5	2.5	6,910	4,546
20432722	5G120mm²	0.5	56.5	2.7	57	2.5	8,620	5,867
20132888	5G150mm²	0.5	56.5	2.9	62.5	3	10,260	7,003
20110510	7x1.5/6mm²	0.3	10.2	1.3	17	0.8	525	192
20296758	7G1,5mm²	0.3	10.2	1.3	17	0.8	525	192
20110520	7x2.5/10mm²	0.3	11.9	1.4	18	0.8	640	264
20110514	7G2,5mm²	0.3	11.9	1.4	18	0.8	645	264
20296364	8x2,5/10mm²	0.3	12.7	1.5	22.5	1	770	296
20166001	8x4/10mm²	0.3	13.6	1.4	22	1	935	411
20109433	12x1.5/10mm²	0.3	13.6	1.5	21.5	1	771	291
20296757	12G1,5mm²	0.3	13.6	1.5	21.5	1	775	291
20222966	12x1.5/10mm² Cl5	0.3	15.3	1.6	22.5	1	870	337
20110521	12x2.5/10mm²	0.3	15.3	1.6	23.5	1	965	403

Dimensional data Part 2

SAP code	Basic construction	Diameter braid wire [mm]	Mechanical cross section reinforcement [mm²]	Nominal thickness outer sheath [mm]	Nominal outer diameter [mm]	Tolerance diameter outer sheath [±mm]	Cable weight [kg/km]	Copper weight [kg/km]
20110511	19x1.5/10mm²	0.3	15.3	1.6	24.5	1	1,060	400
20110522	19x2.5/16mm²	0.3	17.8	1.7	27	1	1,335	576
20218690	24x4/16mm²	0.3	22.9	2	35	1.5	2,200	1,053
20233143	25G1,5mm² Cl5	0.3	17.8	1.8	30	1.5	1,490	566
20110512	27x1.5/10mm²	0.3	20.4	1.8	29	1	1,430	556
20112294	27x2.5/16mm²	0.3	20.4	1.9	32	1.5	1,775	770
20109434	37x1.5/16mm²	0.3	22.9	1.9	32.5	1.5	1,815	714
20109435	37x2.5/25mm²	0.3	22.9	2	36	1.5	2,325	1,010

*) These cables have double braids (see under Basic construction)

Electrical values power cables

SAP code	Basic construction	Conductor resistance at 20° C [Ohm/km]	Conductor resistance at operation temperature [Ohm/km]	Inductive Reactance (at 50Hz)	Inductive Reactance (at 60Hz)	Current carrying capacity [A]	Short circuit current conductor (1sec) [kA]	Short circuit current conductor (5sec) [kA]
20120052	1x16/4mm²	1.16	1.48	0.119	0.142	96	2.24	1
20110496	1x25/4mm²	0.734	0.936	0.112	0.135	127	3.5	1.57
20167406	1x35/6mm²	0.529	0.675	0.109	0.131	157	4.9	2.19
20110497	1x50/10mm²	0.391	0.499	0.106	0.128	196	7	3.13
20172941	1x50/10mm² Cl5	0.391	0.499	0.101	0.121	196	7	3.13
20110498	1x70/10mm²	0.27	0.344	0.101	0.121	242	9.8	4.38
20110499	1x95/10mm²	0.195	0.249	0.098	0.117	293	13.3	5.95
20174003	1x95/10mm² Cl5	0.21	0.2678	0.093	0.112	293	13.3	5.95
20110500	1x120/10mm²	0.154	0.196	0.095	0.114	339	16.8	7.51
20172942	1x120/10mm² Cl5	0.164	0.209	0.091	0.109	339	16.8	7.51
20110501	1x150/16mm²	0.126	0.161	0.094	0.113	389	21	9.39
20110502	1x185/16mm²	0.1	0.128	0.092	0.111	444	25.9	11.58
20110503	1x240/16mm²	0.0762	0.0972	0.09	0.108	522	33.6	15.03
20109432	1x300/16mm²	0.0607	0.0774	0.088	0.106	601	42	18.78
20132148	1x400/25mm²	0.0475	0.0596	0.088	0.105	670	56	25.04
20298574	1x500/35mm²	0.0369	0.0471	0.086	0.103	720	70	31.3
20204148	1x630/35mm²	0.0286	0.0359	0.084	0.101	780	88.2	39.44
20110504	2x1.5/4mm²	12.2	15.6	0.115	0.138	20	0.21	0.09
20110515	2x2.5/4mm²	7.56	9.64	0.107	0.129	26	0.35	0.16
20266581	2x2.5/6mm²	7.56	9.64	0.107	0.129	26	0.35	0.16
20110526	2x4/6mm²	4.7	5.99	0.1	0.12	34	0.56	0.25
20110530	2x6/6mm²	3.11	3.97	0.094	0.113	44	0.84	0.38
20110536	2x10/10mm²	1.84	2.35	0.088	0.105	61	1.4	0.63
20222967	2x10/10mm² CL5	1.95	2.486	0.086	0.103	61	1.4	0.63
20109436	2x16/16mm²	1.16	1.48	0.083	0.099	82	2.24	1
20110547	2x25/16mm²	0.734	0.936	0.082	0.098	108	3.5	1.57
20110762	2x35/16mm²	0.529	0.675	0.079	0.095	133	4.9	2.19
20121221	2x50/25mm²	0.391	0.499	0.078	0.094	167	7	3.13
20110554	2x70/35mm²	0.27	0.344	0.075	0.09	206	9.8	4.38
20115558	2x95/50mm²	0.195	0.249	0.075	0.09	249	13.3	5.95

Electrical values power cables

SAP code	Basic construction	Conductor resistance at 20° C [Ohm/km]	Conductor resistance at operation temperature [Ohm/km]	Inductive Reactance (at 50Hz)	Inductive Reactance (at 60Hz)	Current carrying capacity [A]	Short circuit current conductor (1sec) [kA]	Short circuit current conductor (5sec) [kA]
20132308	2x120/60mm²	0.154	0.196	0.073	0.088	288	16.8	7.51
20110505	3G1,5mm²	12.2	15.6	0.115	0.138	20	0.21	0.09
20110507	3x1.5/4mm²	12.2	15.6	0.115	0.138	16	0.21	0.09
20222965	3x1.5/6mm² Cl5	13.7	17.469	0.115	0.138	16	0.21	0.09
20110516	3G2,5mm²	7.56	9.64	0.107	0.129	26	0.35	0.16
20110517	3x2.5/6mm²	7.56	9.64	0.107	0.129	21	0.35	0.16
20110527	3x4/6mm²	4.7	5.99	0.1	0.12	28	0.56	0.25
20110529	3G4mm²	4.7	5.99	0.1	0.12	34	0.56	0.25
20110533	3G6mm²	3.11	3.97	0.094	0.113	44	0.84	0.38
20110531	3x6/6mm²	3.11	3.97	0.094	0.113	36	0.84	0.38
20110537	3x10/10mm²	1.84	2.35	0.088	0.105	50	1.4	0.63
20110539	3G10mm²	1.84	2.35	0.088	0.105	61	1.4	0.63
20110544	3G16mm²	1.16	1.48	0.083	0.099	82	2.24	1
20110542	3x16/16mm²	1.16	1.48	0.083	0.099	67	2.24	1
20158156	3G25mm²	0.734	0.936	0.082	0.098	108	3.5	1.57
20110548	3x25/16mm²	0.734	0.936	0.082	0.098	89	3.5	1.57
20204127	3G35mm²	0.529	0.675	0.079	0.095	133	4.9	2.19
20206669	3x35/16mm² Cl5	0.565	0.72	0.077	0.092	110	4.9	2.19
20110552	3x50/25mm²	0.391	0.499	0.078	0.094	137	7	3.13
20223926	3x50/25mm² Cl5	0.393	0.501	0.075	0.09	137	7	3.13
20221403	3G70mm²	0.27	0.344	0.075	0.09	206	9.8	4.38
20109437	3x70/35mm²	0.27	0.344	0.075	0.09	169	9.8	4.38
20169174	3x70/35mm² Cl5	0.277	0.353	0.073	0.088	169	9.8	4.38
20109440	3x95/50mm²	0.195	0.249	0.075	0.09	205	13.3	5.95
20109443	3x120/60mm²	0.154	0.196	0.073	0.088	237	16.8	7.51
20168928	3x120/60mm² Cl5	0.164	0.2091	0.071	0.086	237	16.8	7.51
20109444	3x150/75mm² *)	0.126	0.161	0.073	0.088	272	21	9.39
20168929	3x150/75mm² Cl5 *)	0.168	0.132	0.072	0.086	272	21	9.39
20110765	3x185/95mm² *)	0.1	0.128	0.073	0.088	311	25.9	11.58

Electrical values power cables

SAP code	Basic construction	Conductor resistance at 20° C [Ohm/km]	Conductor resistance at operation temperature [Ohm/km]	Inductive Reactance (at 50Hz)	Inductive Reactance (at 60Hz)	Current carrying capacity [A]	Short circuit current conductor (1sec) [kA]	Short circuit current conductor (5sec) [kA]
20168931	3x185/95mm² Cl5 *) ²	0.108	0.1377	0.072	0.086	311	25.9	11.58
20164029	3x240/120mm² *)	0.0762	0.0972	0.073	0.087	365	33.6	15.03
20168930	3x240/120mm² Cl5 *)	0.104	0.0817	0.071	0.086	365	33.6	15.03
20110508	4x1.5/6mm²	12.2	15.6	0.115	0.138	16	0.21	0.09
20110506	4G1,5mm²	12.2	15.6	0.115	0.138	16	0.21	0.09
20110519	4x2.5/6mm²	7.56	9.64	0.107	0.129	21	0.35	0.16
20110518	4G2,5 mm²	7.56	9.64	0.107	0.129	21	0.35	0.16
20110528	4x4/6mm²	4.7	5.99	0.1	0.12	28	0.56	0.25
20110524	4G4mm²	4.7	5.99	0.1	0.12	28	0.56	0.25
20110532	4x6/10mm²	3.11	3.97	0.094	0.113	36	0.84	0.38
20110534	4G6mm²	3.11	3.97	0.094	0.113	36	0.84	0.38
20266582	4x6/6mm²	3.11	3.97	0.094	0.113	36	0.84	0.38
20110540	4G10mm²	1.84	2.35	0.088	0.105	50	1.4	0.63
20110538	4x10/10mm²	1.84	2.35	0.088	0.105	50	1.4	0.63
20354799	4x10/10mm² Cl5	2.486	1.95	0.086	0.103	50	1.4	0.63
20110546	4G16mm²	1.16	1.48	0.083	0.099	67	2.24	1
20110543	4x16/16mm²	1.16	1.48	0.083	0.099	67	2.24	1
20110549	4x25/16mm²	0.734	0.936	0.082	0.098	89	35	1.57
20172200	4G25mm²	0.734	0.936	0.082	0.098	89	3.5	1.57
20158157	4G35mm²	0.529	0.675	0.079	0.095	110	4.9	2.19
20110551	4x35/16mm²	0.529	0.675	0.079	0.095	110	4.9	2.19
20168720	4x35/16mm² Cl5	0.565	0.72	0.077	0.092	110	4.9	2.19
20196609	4G50mm²	0.391	0.499	0.078	0.094	137	7	3.13
20110553	4x50/25mm²	0.391	0.499	0.078	0.094	137	7	3.13
20184102	4G70mm²	0.27	0.344	0.075	0.09	169	9.8	4.38
20109438	4x70/35mm²	0.27	0.344	0.075	0.09	169	9.8	4.38
20109441	4x95/50mm²	0.195	0.249	0.075	0.09	205	13.3	5.95
20110764	4G95mm²	0.195	0.249	0.075	0.09	205	13.3	5.95
20204134	4G120mm²	0.154	0.196	0.073	0.088	237	16.8	7.51
20120715	4x120/60mm²	0.154	0.196	0.073	0.088	237	16.8	7.51

Electrical values power cables

SAP code	Basic construction	Conductor resistance at 20° C [Ohm/km]	Conductor resistance at operation temperature [Ohm/km]	Inductive Reactance (at 50Hz)	Inductive Reactance (at 60Hz)	Current carrying capacity [A]	Short circuit current conductor (1sec) [kA]	Short circuit current conductor (5sec) [kA]
20204147	4G150mm²	0.126	0.161	0.073	0.088	272	21	9.39
20117948	4x150/75mm² *)	0.126	0.161	0.073	0.088	272	21	9.39
20121096	4G185mm²	0.1	0.128	0.073	0.088	311	25.9	11.58
20118466	4x185/95mm² *)	0.1	0.128	0.073	0.088	311	25.9	11.58
20110513	5G1,5mm²	12.2	15.6	0.115	0.138	16	0.21	0.09
20110509	5x1.5/6mm²	12.2	15.6	0.115	0.138	13.5	0.21	0.09
20121182	5x2.5/6mm²	7.56	9.64	0.107	0.129	17.5	0.35	0.16
20110523	5G2,5mm²	7.56	9.64	0.107	0.129	21	0.35	0.16
20110525	5G4mm²	4.7	5.99	0.1	0.12	28	0.56	0.25
20110535	5G6mm²	3.11	3.97	0.094	0.113	36	0.84	0.38
20110541	5G10mm²	1.84	2.35	0.088	0.105	50	1.4	0.63
20110545	5G16mm²	1.16	1.48	0.083	0.099	67	2.24	1
20133369	5G25mm²	0.734	0.936	0.082	0.098	89	3.5	1.57
20110763	5G35mm²	0.529	0.675	0.079	0.095	110	4.9	2.19
20204128	5G50mm²	0.391	0.499	0.078	0.094	137	7	3.13
20109439	5x70/35mm²	0.27	0.344	0.075	0.09	169	9.8	4.38
20204129	5G70mm²	0.27	0.344	0.075	0.09	169	9.8	4.38
20109442	5G95mm²	0.195	0.249	0.075	0.09	205	13.3	5.95
20432722	5G120mm²	0.154	0.196			237	16.8	7.51
20132888	5G150mm²	0.126	0.161	0.073	0.088	272	21	9.39
20110510	7x1.5/6mm²	12.2	15.6	0.115	0.138	12	0.21	0.09
20296758	7G1,5mm²	12.2	15.6	0.115	0.138	12.5	0.21	0.09
20110520	7x2.5/10mm²	7.56	9.64	0.107	0.129	15.5	0.35	0.16
20110514	7G2,5mm²	7.56	9.64	0.107	0.129	22	0.35	0.16
20296364	8x2,5/10mm²	7.56	9.64	0.107	0.129	15	0.35	0.16
20166001	8x4/10mm²	4.7	5.99	0.1	0.12	20	0.56	0.25
20109433	12x1.5/10mm²	12.2	15.6	0.115	0.138	10	0.21	0.09
20296757	12G1,5mm²	12.2	15.6	0.115	0.138	10.3	0.21	0.09
20222966	12x1.5/10mm² Cl5	13.7	17.469	0.115	0.138	10	0.21	0.09
20110521	12x2.5/10mm²	7.56	9.64	0.107	0.129	13	0.35	0.16

Electrical values power cables

SAP code	Basic construction	Conductor resistance at 20° C [Ohm/km]	Conductor resistance at operation temperature [Ohm/km]	Inductive Reactance (at 50Hz)	Inductive Reactance (at 60Hz)	Current carrying capacity [A]	Short circuit current conductor (1sec) [kA]	Short circuit current conductor (5sec) [kA]
20110511	19x1.5/10mm²	12.2	15.6	0.115	0.138	8.5	0.21	0.09
20110522	19x2.5/16mm²	7.56	9.64	0.107	0.129	11	0.35	0.16
20218690	24x4/16mm²	4.7	5.99	0.1	0.12	13.9	0.56	0.25
20233143	25G1,5mm² Cl5	13.7	17.47	0.115	0.138	8	0.21	0.09
20110512	27x1.5/10mm²	12.2	15.6	0.115	0.138	7.5	0.21	0.09
20112294	27x2.5/16mm²	7.56	9.64	0.107	0.129	10	0.35	0.16
20109434	37x1.5/16mm²	12.2	15.6	0.115	0.138	7	0.21	0.15
20109435	37x2.5/25mm²	7.56	9.64	0.107	0.129	9	0.35	0.16

Current Rating IEC 61892-4 Table 4 at 45°C ambient temperature. Maximum operating conductor temperature = 90°C

Ambient temperature correction factors

Ambient temperature °C / Omgivelsestemperatur °C	35	40	45	50	55	60	65	70	75	80
Rating factor / Korreksjonsfaktor	1,10	1,05	1,00	0,94	0,88	0,82	0,74	0,67	0,58	0,47

Bending RADII & pulling recommendations

Minimum Bending Radius During Installation / Minimum bøyeradius under installasjon	Minimum Bending Radius Fixed Installed / Minimum bøyeradius ferdig installert	Maximum Tensile Load During Installation / Maksimum trekkraft ved installasjon	Minimum Installation Temperature / Minimum installasjons temperature
8 x D	6 x D	50 N x total cross section (mm²) of conductors / 50 N x totalt ledertverrsnitt (mm²)	- 20 °C

D = Cable overall diameter

Draka

RFOU M P1/P8/P101

EPR/EPR/TCWB/SHF2

Flame retardant halogen-free power cable. MUD resistant.

Application

Fixed installation for power, control and lighting in both EX (Zone 0, 1 & 2)- and safe areas, general purposes. RFOU M 1kV for installation in areas exposed to MUD and drilling/cleaning fluids. Meets the Oil & Mud resistance requirement in NEK TS 606:2022.

SHF2 outer sheath to IEC 60092-360 is a flame retardant halogen-free thermoset EVA rubber. Offshore, Oil & Gas.

Cable construction

Conductor material	Copper
Conductor surface	Tinned
Core insulation material	EPR rubber
Core identification (acc. HD 308 S2)	Yes
Armouring/reinforcement	Braiding
Armouring	Yes
Armouring/reinforcement material	Copper, tinned
Material inner sheath	Halogenfree polymer
Material outer sheath	EVA rubber
Cable shape	Round
Max. conductor temperature [°C]	90
Max. conductor temperature at short circuit [°C]	250

Marking text on Outer Sheath (example)

"meter" "year/week" DRAKA 01 Part no. RFOU M 1kV P1/P8/P101 3 x 35/16 mm2 IEC 60332-3-22 Production no.

Core identification power cables

Single core - Black
Two cores - Blue - Brown
Three cores - Brown - Black - Grey
Four cores - Blue - Brown - Black - Grey
Five cores - Blue - Brown - Black - Grey - Black
Seven cores and above – White cores with black numbers
Two cores + earth (3G) - Yellow/green - Blue - Brown
Three cores + earth (4G) - Yellow/green - Brown - Black - Grey
Four cores + earth (5G) - Yellow/green - Blue - Brown - Black - Grey
G / X in cable description - G = One of the cores is Yellow/Green - X = no Yellow/Green core

Core colours in acc. with HD308S2 and IEC 60445 Ed 5.0 2010-08

Standards applied

NEK TS 606:2022	Cables for offshore installations
IEC 60092-353	Design standard
IEC 60228 Class 2 or class 5	Conductors
IEC 60092-360	Insulation and sheath
IEC 60092-350	General construction and test methods for power, control and instrumentation cables for shipboard and offshore applications
IEC 61892-4 Table 4	Current rating at 45°C ambient temperature IEC 61892-4 Table 4
IEC 60332-1-2 and IEC 60332-3-22(Cat.A)	Flame retardant properties
IEC 60754-1 and IEC 60754-2	Halogen free properties: IEC 60754-1 (pH ≥ 4,3, Conductivity ≤ 10µS), IEC 60754-2 (< 0,5% Halogen)
IEC 61034-1, -2	Low smoke properties: IEC 61034-1, -2 (minimum 60% light transmittance)
Oil resistant IEC 60092-360	IRM 902 oil (168 hours @ 100°C)
MUD resistant (IEC 60092-360 & NEK TS 606)	IRM 903 oil (168 hours @ 100°C), Calcium Bromide Brine (56 days @ 70°C), EDC 95-11 base oil (56 days @ 70°C)
ISO 4892 part 3	UV and Ozone resistance

Application properties

Test voltage [kV]	8.4
Rated voltage U0/U (Um)	0.6/1 (1.2) kV
Min. outer temperature, fixed installation [°C]	-52
Max. outer temperature, fixed installation [°C]	75
Low temperature resistant (acc. EN 60811-504+505+506)	Yes
Outdoor installation	Yes
Min. outer temperature during installation [°C]	-20
Max. outer temperature during installation [°C]	50
Underground installation	Yes
Suitable as installation cable	Yes
Bending radius (rule)	8 x OD (cable overall diameter) during installation 6 x OD (cable overall diameter) fixed installed
Certified for shipboard application	Yes

Product range

SAP code	Basic construction	Nominal electrical copper cross section armouring [mm²]	Colour outer steath	Conductor category	EL no.	EAN-code (GTIN)	Semco Part Code
20194476	1x16/4mm²	4	Black	Class 2 = stranded	20194476	7021528000009	On request
20139734	1x25/4mm²	4	Black	Class 2 = stranded	1044206	7021528000016	On request
20183111	1x35/6mm²	6	Black	Class 2 = stranded	1044207	7021528000023	On request
20204253	1x50/6mm²	6	Black	Class 2 = stranded	1044208	7021528000030	8000108
20151455	1x70/10mm²	10	Black	Class 2 = stranded	20151455	7021528000047	On request
20151456	1x95/10mm²	10	Black	Class 2 = stranded	1044210	7021528000054	On request
20132989	1x120/10mm²	10	Black	Class 2 = stranded	20132989	7021528000061	8035714
20133004	1x150/10mm²	10	Black	Class 2 = stranded	1044211	7021528000078	8000058
20136468	1x185/16mm²	16	Black	Class 2 = stranded	1044213	7021528000085	8002302
20110465	1x240/16mm²	16	Black	Class 2 = stranded	1044214	7021528000092	8059158
20110466	1x300/16mm²	16	Black	Class 2 = stranded	1044215	7021528000108	8006317
20110761	1x400/25mm²	25	Black	Class 2 = stranded	20110761	7021528000115	On request
20204254	1x500/25mm²	25	Black	Class 2 = stranded	20204254	7021528000122	On request
20204255	1x630/35mm²	35	Black	Class 2 = stranded	20204255	7021528000139	On request
20110467	2x1.5/4mm²	4	Black	Class 2 = stranded	1044220	7021528000153	8000133
20110473	2x2.5/4mm²	4	Black	Class 2 = stranded	1044221	7021528000290	8000142
20110477	2x4/6mm²	6	Black	Class 2 = stranded	1044222	7021528000450	8000175
20222958	2x4/6mm² Cl5	6	Black	Class 5 = flexible	20222958	7021528004458	On request
20110481	2x6/6mm²	6	Black	Class 2 = stranded	1044223	7021528000511	8000181
20222959	2x6/6mm² Cl5	6	Black	Class 5 = flexible	20222959	7021528004519	On request
20110484	2x10/10mm²	10	Black	Class 2 = stranded	1044224	7021528000573	8003727
20110487	2x16/16mm²	16	Black	Class 2 = stranded	1044225	7021528000634	8056829
20183090	2x50/25mm²	25	Black	Class 2 = stranded	20183090	7021528000818	On request
20172571	2x70/35mm²	35	Black	Class 2 = stranded	20172571	7021528000870	On request
20172572	2x95/50mm²	50	Black	Class 2 = stranded	20172572	7021528000948	On request
20109428	2x120/60mm²	60	Black	Class 2 = stranded	20109428	7021528001006	On request
20110469	3x1.5/4mm²	4	Black	Class 2 = stranded	1044240	7021528000184	8000191
20110468	3G1.5mm²		Black	Class 2 = stranded	20110468	7021528000160	8001569
20222957	3x1.5/4mm² Cl5	4	Black	Class 5 = flexible	20222957	7021528004182	On request
20110474	3G2.5mm²		Black	Class 2 = stranded	20110474	7021528000306	8001299

Product range

SAP code	Basic construction	Nominal electrical copper cross section armouring [mm²]	Colour outer steath	Conductor category	EL no.	EAN-code (GTIN)	Semco Part Code
20110475	3x2.5/6mm²	6	Black	Class 2 = stranded	1044241	7021528000320	8000213
20233141	3G2.5mm²		Black	Class 5 = flexible	20233141	7021528004304	8001299
20110480	3G4mm²		Black	Class 2 = stranded	20110480	7021528000498	8000177
20110478	3x4/6mm²	6	Black	Class 2 = stranded	1044242	7021528000467	8000231
20132988	3G6mm²		Black	Class 2 = stranded	20132988	7021528000559	8000182
20110482	3x6/6mm²	6	Black	Class 2 = stranded	1044243	7021528000528	8000244
20222960	3x6/6mm² Cl5	6	Black	Class 5 = flexible	20222960	7021528004526	On request
20110485	3x10/10mm²	10	Black	Class 2 = stranded	1044244	7021528000580	On request
20172573	3G10mm²		Black	Class 2 = stranded	20172573	7021528000603	On request
20172574	3G16mm²		Black	Class 2 = stranded	20172574	7021528000689	8003586
20110488	3x16/16mm²	16	Black	Class 2 = stranded	1044245	7021528000641	8037133
20180325	3G25mm²		Black	Class 2 = stranded	20180325	7021528000733	On request
20110490	3x25/16mm²	16	Black	Class 2 = stranded	1044246	7021528000702	8000220
20171449	3x25/16mm²	16	Black	Class 5 = flexible	20171449	7021528004700	8000220
20297777	2x35+E25mm²		Black	Class 2 = stranded	20297777	7021528879100	On request
20110492	3x35/16mm²	16	Black	Class 2 = stranded	1044247	7021528000764	8000227
20224950	3G35mm²		Black	Class 2 = stranded	20224950	7021528001181	On request
20110494	3x50/25mm²	25	Black	Class 2 = stranded	1044248	7021528000825	8000238
20172943	3x50/25mm² Cl5	25	Black	Class 5 = flexible	20172943	7021528060829	On request
20109424	3x70/35mm²	35	Black	Class 2 = stranded	1044249	7021528000887	8062367
20109426	3x95/50mm²	50	Black	Class 2 = stranded	1044250	7021528000955	8000251
20222962	3x95/50mm² Cl5	50	Black	Class 5 = flexible	20222962	7021528004953	On request
20109429	3x120/60mm²	60	Black	Class 2 = stranded	1044251	7021528001013	8000199
20222963	3x120/60mm² Cl5	60	Black	Class 5 = flexible	20222963	7021528005011	On request
20224951	3G150mm²		Black	Class 2 = stranded	20224951	7021528001198	On request
20109430	3x150/75mm² *)	75	Black	Class 2 = stranded	1044252	7021528001020	On request
20222964	3x150/75mm² Cl5	75	Black	Class 5 = flexible	20222964	7021528005028	On request
20109425	3x185/95mm² *)	95	Black	Class 2 = stranded	20109425	7021528000931	On request
20222961	3x185/95mm² Cl5	95	Black	Class 5 = flexible	20222961	7021528004939	On request
20109431	3x240/120mm² *)	120	Black	Class 2 = stranded	20109431	7021528001129	On request

Product range

SAP code	Basic construction	Nominal electrical copper cross section armouring [mm²]	Colour outer steath	Conductor category	EL no.	EAN-code (GTIN)	Semco Part Code
20110470	4x1.5/6mm²	6	Black	Class 2 = stranded	1044260	7021528000191	8000257
20170924	4G1.5mm²		Black	Class 2 = stranded	20170924	7021528000177	8000195
20110476	4x2.5/6mm²	6	Black	Class 2 = stranded	1044261	7021528000351	8000265
20171027	4G2.5mm²		Black	Class 2 = stranded	20171027	7021528000337	8000215
20133496	4G4mm²		Black	Class 2 = stranded	20133496	7021528000436	8003587
20110479	4x4/6mm²	6	Black	Class 2 = stranded	1044262	7021528000474	8003004
20110483	4x6/10mm²	10	Black	Class 2 = stranded	1044263	7021528000535	8000302
20117131	4G6mm²		Black	Class 2 = stranded	20117131	7021528000542	8000245
20172232	4G10mm²		Black	Class 2 = stranded	20172232	7021528000627	8063289
20110486	4x10/10mm²	10	Black	Class 2 = stranded	1044264	7021528000597	On request
20172267	4G16mm²		Black	Class 2 = stranded	20172267	7021528000665	8000209
20110489	4x16/16mm²	16	Black	Class 2 = stranded	1044265	7021528000658	8115948
20297770	3x25+E16mm²		Black	Class 2 = stranded	20297770	7021528879032	On request
20110491	4x25/16mm²	16	Black	Class 2 = stranded	1044266	7021528000719	On request
20172269	4G25mm²		Black	Class 2 = stranded	20172269	7021528000726	8000221
20110493	4x35/16mm²	16	Black	Class 2 = stranded	1044267	7021528000771	8001803
20172341	4G35mm²		Black	Class 2 = stranded	20172341	7021528000788	On request
20168791	4x35/16mm² Cl5	16	Black	Class 5 = flexible	20168791	7021528060775	On request
20297771	3x50+E25mm²		Black	Class 2 = stranded	20297771	7021528879049	On request
20174266	4G50mm²		Black	Class 2 = stranded	20172466	7021528000849	8000240
20110495	4x50/25mm²	25	Black	Class 2 = stranded	1044268	7021528000832	8000299
20172467	4G70mm²		Black	Class 2 = stranded	20172467	7021528000900	8003591
20136469	4x70/35mm²	35	Black	Class 2 = stranded	1044269	7021528000894	On request
20138643	4G95mm²		Black	Class 2 = stranded	20138643	7021528000979	8079789
20297772	3x95+E50mm²		Black	Class 2 = stranded	20297772	7021528879056	On request
20109427	4x95/50mm²	50	Black	Class 2 = stranded	1044270	7021528000962	8000307
20297773	3x120+E70mm²		Black	Class 2 = stranded	20297773	7021528879063	On request
20204196	4G120mm²		Black	Class 2 = stranded	20204196	7021528001068	8076780
20132986	4x120/60mm²	60	Black	Class 2 = stranded	20132986	7021528001051	On request
20297774	3x150+E95mm²		Black	Class 2 = stranded	20297774	7021528879070	On request

Product range

SAP code	Basic construction	Nominal electrical copper cross section armouring [mm²]	Colour outer steath	Conductor category	EL no.	EAN-code (GTIN)	Semco Part Code
20114321	4G150mm²		Black	Class 2 = stranded	20114321	7021528001082	On request
20138527	4x150/75mm² *)	75	Black	Class 2 = stranded	20138527	7021528001020	On request
20204197	4G185mm²		Black	Class 2 = stranded	20204197	7021528001105	On request
20150519	4x185/95mm² *)	95	Black	Class 2 = stranded	20150519	7021528001112	On request
20204149	5G1.5mm²		Black	Class 2 = stranded	20204149	7021528000269	8003588
20111209	5x1.5/6mm²	6	Black	Class 2 = stranded	1044305	7021528000207	On request
20222521	5x2.5/6mm²	6	Black	Class 2 = stranded	1044355	7021528000368	On request
20114348	5G2.5mm²		Black	Class 2 = stranded	20114348	7021528000344	8001385
20204162	5x4/10mm²	10	Black	Class 2 = stranded	20204162	7021528000481	On request
20204161	5G4mm²		Black	Class 2 = stranded	20204161	7021528000504	8003589
20217564	5x6/10mm²	10	Black	Class 2 = stranded	20217564	7021528001174	On request
20204188	5G6mm²		Black	Class 2 = stranded	20204188	7021528000566	8000304
20170625	5G10mm²		Black	Class 2 = stranded	20170625	7021528000610	8003003
20204189	5G16mm²		Black	Class 2 = stranded	20204189	7021528000672	8026365
20181998	5G25mm²		Black	Class 2 = stranded	20181998	7021528000740	8000273
20227783	5x25/16mm²	16	Black	Class 2 = stranded	20227783	7021528001204	On request
20297775	4x35+E25mm²		Black	Class 2 = stranded	20297775	7021528879087	On request
20204190	5G35mm²		Black	Class 2 = stranded	20204190	7021528000795	On request
20285228	5G50mm²		Black	Class 2 = stranded	20285228	7021528000856	On request
20297776	4x70+E35mm²		Black	Class 2 = stranded	20297776	7021528879094	On request
20204194	5G70mm²		Black	Class 2 = stranded	20204194	7021528000917	On request
20285299	5G95mm²		Black	Class 2 = stranded	20285229	7021528000986	On request
20204195	5G120mm²		Black	Class 2 = stranded	20204195	7021528000993	On request
20132887	5G150mm²		Black	Class 2 = stranded	20132887	7021528001150	On request
20110471	7x1.5/6mm²	6	Black	Class 2 = stranded	1044307	7021528000214	8000315
20172517	7G2.5mm²		Black	Class 2 = stranded	20172517	7021528000443	8000311
20156200	7x2.5/10mm²	10	Black	Class 2 = stranded	1044357	7021528000375	8002067
20327978	8G1.5mm²		Black	Class 2 = stranded	20327978	7021528001211	On request
20104950	12x1.5/10mm²	10	Black	Class 2 = stranded	1044312	7021528000221	8000011
20109423	12x2.5/10mm²	10	Black	Class 2 = stranded	1044362	7021528000382	8000013

Product range

SAP code	Basic construction	Nominal electrical copper cross section armouring [mm²]	Colour outer steath	Conductor category	EL no.	EAN-code (GTIN)	Semco Part Code
20110472	19x1.5/10mm²	10	Black	Class 2 = stranded	1044319	7021528000214	8000054
20120716	19x2.5/16mm²	16	Black	Class 2 = stranded	1044369	7021528000399	On request
20328155	20G1.5mm²		Black	Class 2 = stranded	20328155	7021528001228	On request
20356834	24x1.5/16mm²	16	Black	Class 2 = stranded	20356834	7021528001242	On request
20204256	27x1.5/16mm²	16	Black	Class 2 = stranded	1044327	7021528000245	8000130
20183112	27x2.5/16mm²	16	Black	Class 2 = stranded	1044377	7021528000405	8001354
20328156	28G1.5mm²		Black	Class 2 = stranded	20328156	7021528001235	On request
20204257	37x1.5/16mm²	16	Black	Class 2 = stranded	1044337	7021528000252	8000185
20114663	37x2.5/16mm²	16	Black	Class 2 = stranded	1044387	7021528000412	8000185
20168266	47x1.5/16mm²	16	Black	Class 2 = stranded	20168266	7021528000276	On request

*) These cables have double braids (see under Basic construction)

Dimensional data Part 1

SAP code	Basic construction	Diameter conductor [mm]	Nominal thickness insulation [mm]	Nominal diameter over insulation [mm]	Nominal thickness inner sheath [mm]	Nominal diameter over inner sheath [mm]	Tolerance diameter inner sheath [±mm]
20194476	1x16/4mm²	5.05	1	7	1.1	9	0.5
20139734	1x25/4mm²	6.3	1.2	8.7	1.1	11	0.8
20183111	1x35/6mm²	7.4	1.2	9.8	1.1	12	0.8
20204253	1x50/6mm²	8.75	1.4	11.5	1.1	14	0.8
20151455	1x70/10mm²	10.6	1.4	13.3	1.1	16	0.8
20151456	1x95/10mm²	12.4	1.6	15.5	1.1	18	0.8
20132989	1x120/10 mm²	14	1.6	17.1	1.1	19.5	0.8
20133004	1x150/10 mm²	15.45	1.8	19	1.1	21.5	1
20136468	1x185/16 mm²	17.3	2	21.1	1.1	24	1
20110465	1x240/16 mm²	19.85	2.2	24.1	1.1	27	1
20110466	1x300/16 mm²	22.25	2.4	26.8	1.1	29.5	1
20110761	1x400/25 mm²	26	2.6	31	1.1	33.5	1.5
20204254	1x500/25 mm²	29	2.8	34.2	1.1	36.5	1.5
20204255	1x630/35 mm²	32.8	2.8	38	1.1	40.5	2
20110467	2x1.5/4mm²	1.6	1	3.5	1.1	9	0.5
20110473	2x2.5/4mm²	2	1	3.9	1.1	10	0.8
20110477	2x4/6mm²	2.5	1	4.1	1.1	11	0.8
20222958	2x4/6mm² Cl5	2.7	1	4.7	1.1	11.5	0.8
20110481	2x6/6mm²	3.1	1	5	1.1	12.5	0.8
20222959	2x6/6mm² Cl5	3.3	1	5.3	1.1	13	0.8
20110484	2x10/10mm²	4	1	5.9	1.1	14	0.8
20110487	2x16/16mm²	5.05	1	7	1.1	16	0.8
20183090	2x50/25mm²	8.75	1.4	11.5	1.1	25.5	1
20172571	2x70/35mm²	10.6	1.4	13.3	1.1	29.5	1
20172572	2x95/50mm²	12.4	1.6	15.5	1.4	34.5	2
20109428	2x120/60 mm²	14	1.6	17.1	1.4	37	1.5
20110469	3x1.5/4mm²	1.6	1	3.5	1.1	10	0.8
20110468	3G1.5mm²	1.6	1	3.5	1.1	10	0.8
20222957	3x1.5/4mm² Cl5	1.6	1	3.6	1.1	10	0.8
20110474	3G2.5mm²	2	1	3.9	1.1	10.5	0.8

Dimensional data Part 1

SAP code	Basic construction	Diameter conductor [mm]	Nominal thickness insulation [mm]	Nominal diameter over insulation [mm]	Nominal thickness inner sheath [mm]	Nominal diameter over inner sheath [mm]	Tolerance diameter inner sheath [±mm]
20110475	3x2.5/6mm²	2	1	3.9	1.1	10.5	0.8
20233141	3G2.5mm²	2.1	1	4.1	1.1	11	0.8
20110480	3G4mm²	2.5	1	4.1	1.1	12	0.8
20110478	3x4/6mm²	2.5	1	4.1	1.1	12	0.8
20132988	3G6mm²	3.1	1	5	1.1	13	0.8
20110482	3x6/6mm²	3.1	1	5	1.1	13	0.8
20222960	3x6/6mm² Cl5	3.3	1	5.3	1.1	13.5	0.8
20110485	3x10/10mm²	4	1	5.9	1.1	15	0.8
20172573	3G10mm²	4	1	5.9	1.1	15	0.8
20172574	3G16mm²	5.05	1	7	1.1	17.5	0.8
20110488	3x16/16mm²	5.05	1	7	1.1	17.5	0.8
20180325	3G25mm²	6.3	1.2	8.7	1.1	21	1
20110490	3x25/16mm²	6.3	1.2	8.7	1.1	21	1
20171449	3x25/16mm²	7.2	1.2	9.6	1.2	23	1
20297777	2x35+E25mm²	7.4	1.2	9.8	1.1	23.5	1
20110492	3x35/16mm²	7.4	1.2	9.8	1.1	23.5	1
20224950	3G35mm²	7.4	1.2	9.8	1.1	23.5	1
20110494	3x50/25mm²	8.75	1.4	11.5	1.1	27.5	1
20172943	3x50/25mm² Cl5	10.65	1.4	13.5	1.2	31.5	1.5
20109424	3x70/35mm²	10.6	1.4	13.3	1.1	31.5	1.5
20109426	3x95/50mm²	12.4	1.6	15.5	1.4	37	1.5
20222962	3x95/50mm² Cl5	13.3	1.6	16.5	1.6	39	1.5
20109429	3x120/60mm²	14	1.6	17.1	1.4	40.5	2
20222963	3x120/60mm² Cl5	16.6	1.6	19.8	1.4	46.5	2
20224951	3G150mm²	15.45	1.8	19	1.4	44.5	2
20109430	3x150/75mm² *)	15.45	1.8	19	1.4	44.5	2
20222964	3x150/75mm² Cl5	17.8	1.8	21.4	1.6	50	2
20109425	3x185/95mm² *)	17.3	2	21.1	1.4	49	2
20222961	3x185/95mm² Cl5	18.6	2	22.7	1.6	53	2.5
20109431	3x240/120mm² *)	19.85	2.2	24.1	1.4	55.5	2.5

Dimensional data Part 1

SAP code	Basic construction	Diameter conductor [mm]	Nominal thickness insulation [mm]	Nominal diameter over insulation [mm]	Nominal thickness inner sheath [mm]	Nominal diameter over inner sheath [mm]	Tolerance diameter inner sheath [±mm]
20110470	4x1.5/6mm²	1.6	1	3.5	1.1	10.5	0.8
20170924	4G1.5mm²	1.6	1	3.5	1.1	10.5	0.8
20110476	4x2.5/6mm²	2	1	3.9	1.1	11.5	0.8
20171027	4G2.5mm²	2	1	3.9	1.1	11.5	0.8
20133496	4G4mm²	2.5	1	4.1	1.1	13	0.8
20110479	4x4/6mm²	2.5	1	4.1	1.1	13	0.8
20110483	4x6/10mm²	3.1	1	5	1.1	14.5	0.8
20117131	4G6mm²	3.1	1	5	1.1	14.5	0.8
20172232	4G10mm²	4	1	5.9	1.1	16.5	0.8
20110486	4x10/10mm²	4	1	5.9	1.1	16.5	0.8
20172267	4G16mm²	5.05	1	7	1.1	19	0.8
20110489	4x16/16mm²	5.05	1	7	1.1	19	0.8
20297770	3x25+E16mm²	6.3	1.2	8.7	1.1	23.5	1
20110491	4x25/16mm²	6.3	1.2	8.7	1.1	23.5	1
20172269	4G25mm²	6.3	1.2	8.7	1.1	23.5	1
20110493	4x35/16mm²	7.4	1.2	9.8	1.1	26	1
20172341	4G35mm²	7.4	1.2	9.8	1.1	26	1
20168791	4x35/16mm² Cl5	8.45	1.2	10.9	1.2	29	1
20297771	3x50+E25mm²	8.75	1.4	11.5	1.1	30.5	1.5
20174266	4G50mm²	8.75	1.4	11.5	1.1	30.5	1.5
20110495	4x50/25mm²	8.75	1.4	11.5	1.1	30.5	1.5
20172467	4G70mm²	10.6	1.4	13.3	1.1	35	1.5
20136469	4x70/35mm²	10.6	1.4	13.3	1.1	35	1.5
20138643	4G95mm²	12.4	1.6	15.5	1.4	40.5	2
20297772	3x95+E50mm²	12.4	1.6	15.5	1.4	41	2
20109427	4x95/50mm²	12.4	1.6	15.5	1.4	41	2
20297773	3x120+E70mm²	14	1.6	17.1	1.4	45	2
20204196	4G120mm²	14	1.6	17.1	1.4	45	2
20132986	4x120/60mm²	14	1.6	17.1	1.4	45	2
20297774	3x150+E95mm²	15.45	1.8	19	1.4	49.5	2

Dimensional data Part 1

SAP code	Basic construction	Diameter conductor [mm]	Nominal thickness insulation [mm]	Nominal diameter over insulation [mm]	Nominal thickness inner sheath [mm]	Nominal diameter over inner sheath [mm]	Tolerance diameter inner sheath [±mm]
20114321	4G150mm²	15.45	1.8	19	1.4	49.5	2
20138527	4x150/75 mm² *)	15.45	1.8	19	1.4	49.5	2
20204197	4G185mm²	17.3	2	21.1	1.4	54.5	2.5
20150519	4x185/95 mm² *)	17.3	2	21.1	1.4	54.5	2.5
20204149	5G1.5mm²	1.6	1	3.5	1.1	11.5	0.8
20111209	5x1.5/6mm²	1.6	1	3.5	1.1	11.5	0.8
20222521	5x2.5/6mm²	2	1	3.9	1.1	13	0.8
20114348	5G2.5mm²	2	1	3.9	1.1	13	0.8
20204162	5x4/10mm²	2.5	1	4.1	1.1	14	0.8
20204161	5G4mm²	2.5	1	4.1	1.1	14	0.8
20217564	5x6/10mm²	3.1	1	5	1.1	15.5	0.8
20204188	5G6mm²	3.1	1	5	1.1	15.5	0.8
20170625	5G10mm²	4	1	5.9	1.1	18	0.8
20204189	5G16mm²	5.05	1	7	1.1	21	1
20181998	5G25mm²	6.3	1.2	8.7	1.1	25.5	1
20227783	5x25/16mm²	6.3	1.2	8.7	1.1	25.5	1
20297775	4x35+E25 mm²	7.4	1.2	9.8	1.1	29	1
20204190	5G35mm²	7.4	1.2	9.8	1.1	29	1
20285228	5G50mm²	8.75	1.4	11.5	1.1	34	1.5
20297776	4x70+E35 mm²	10.6	1.4	13.3	1.1	39	1.5
20204194	5G70mm²	10.6	1.4	13.3	1.1	39	1.5
20221402	5x70/35mm²	10.6	1.4	13.3	1.1	39	1.5
20285299	5G95mm²	12.4	1.6	15.5	1.4	45.5	2
20204195	5G120mm²	14	1.6	17.1	1.4	50	2.5
20132887	5G150mm²	15.45	1.8	19	1.4	55	2.5
20110471	7x1.5/6mm²	1.6	1	3.5	1.1	12.5	0.8
20172517	7G2.5mm²	2	1	3.9	1.1	13.5	0.8
20156200	7x2.5/10mm²	2	1	3.9	1.1	13.5	0.8
20327978	8G1.5mm²	1.6	1	3.5	1.1	14	0.8

Dimensional data Part 1

SAP code	Basic construction	Diameter conductor [mm]	Nominal thickness insulation [mm]	Nominal diameter over insulation [mm]	Nominal thickness inner sheath [mm]	Nominal diameter over inner sheath [mm]	Tolerance diameter inner sheath [±mm]
20104950	12x1.5/10 mm²	1.6	1	3.5	1.1	16	0.8
20109423	12x2.5/10 mm²	2	1	3.9	1.1	18	0.8
20110472	19x1.5/10 mm²	1.6	1	3.5	1.1	19	0.8
20120716	19x2.5/16 mm²	2	1	3.9	1.1	21	1
20328155	20G1.5m m²	1.6	1	3.5	1.1	20	1
20356834	24x1.5/16 mm²	1.6	1	3.5	1.1	22.5	1
20204256	27x1.5/16 mm²	1.6	1	3.5	1.1	23	1
20183112	27x2.5/16 mm²	2	1	3.9	1.1	25.5	1
20328156	28G1.5m m²	1.6	1	3.5	1.1	23.5	1
20204257	37x1.5/16 mm²	1.6	1	3.5	1.1	25.5	1
20114663	37x2.5/16 mm²	2	1	3.9	1.1	29.5	1
20168266	47x1.5/16 mm²	1.6	1	3.5	1.1	29	1

Dimensional data Part 2

SAP code	Basic construction	Diameter braid wire [mm]	Mechanical cross section reinforcement [mm²]	Nominal thickness outer sheath [mm]	Nominal outer diameter [mm]	Tolerance diameter outer sheath [±mm]	Cable weight [kg/km]	Copper weight [kg/km]
20194476	1x16/4mm²	0.2	5.3	1.2	12.5	0.8	360	192
20139734	1x25/4mm²	0.2	6	1.2	14	0.8	485	280
20183111	1x35/6mm²	0.3	10.2	1.3	15.5	0.8	640	404
20204253	1x50/6mm²	0.3	10.2	1.4	17.5	0.8	805	514
20151455	1x70/10mm²	0.3	12.7	1.4	19.5	0.8	1,065	737
20151456	1x95/10mm²	0.3	15.3	1.5	22	1	1,375	974
20132989	1x120/10 mm²	0.3	15.3	1.6	23.5	1	1,665	1,216
20133004	1x150/10 mm²	0.3	15.3	1.6	25.5	1	1,960	1,444
20136468	1x185/16 mm²	0.3	17.8	1.7	28	1	2,385	1,781
20110465	1x240/16 mm²	0.3	20.4	1.8	31.5	1.5	3,030	2,316
20110466	1x300/16 mm²	0.3	22.9	1.9	34	1.5	3,720	2,883
20110761	1x400/25 mm²	0.4	31.7	2.1	39	1.5	5,030	4,009
20204254	1x500/25 mm²	0.4	36.2	2.2	42.5	2	6,130	4,947
20204255	1x630/35 mm²	0.4	40.7	2.3	46.5	2	7,560	6,255
20110467	2x1.5/4mm²	0.2	5.3	1.2	12.5	0.8	270	79
20110473	2x2.5/4mm²	0.2	5.3	1.2	13	0.8	310	95
20110477	2x4/6mm²	0.3	8.5	1.3	14.5	0.8	410	154
20222958	2x4/6mm² Cl5	0.3	8.5	1.3	15.5	0.8	430	153
20110481	2x6/6mm²	0.3	10.2	1.3	16	0.8	510	208
20222959	2x6/6mm² Cl5	0.3	10.2	1.3	16.5	0.8	535	210
20110484	2x10/10mm²	0.3	11.9	1.4	18	0.8	665	292
20110487	2x16/16mm²	0.4	18.1	1.5	20.5	1	920	458
20183090	2x50/25mm²	0.4	27.1	1.8	30	1.5	2,050	1,093
20172571	2x70/35mm²	0.5	42.4	1.9	34.5	1.8	2,840	1,639
20172572	2x95/50mm²	0.5	49.5	2.1	40	1.5	3,750	2,136
20109428	2x120/60 mm²	0.61	63.1	2.2	44	2	4,650	2,751
20110469	3x1.5/4mm²	0.2	5.3	1.2	13	0.8	295	92
20110468	3G1.5mm²	0.2	5.3	1.2	13	0.8	295	92
20222957	3x1.5/4mm² Cl5	0.2	5.3	1.2	13.5	0.8	320	100
20110474	3G2.5mm²	0.3	8.5	1.3	14.5	0.8	390	148

Dimensional data Part 2

SAP code	Basic construction	Diameter braid wire [mm]	Mechanical cross section reinforcement [mm²]	Nominal thickness outer sheath [mm]	Nominal outer diameter [mm]	Tolerance diameter outer sheath [±mm]	Cable weight [kg/km]	Copper weight [kg/km]
20110475	3x2.5/6mm²	0.3	8.5	1.3	14.5	0.8	390	148
20233141	3G2.5mm²	0.3	8.5	1.3	15	0.8	405	146
20110480	3G4mm²	0.3	10.2	1.3	15.5	0.8	480	204
20110478	3x4/6mm²	0.3	10.2	1.3	15.5	0.8	480	204
20132988	3G6mm²	0.3	10.2	1.4	17	0.8	585	263
20110482	3x6/6mm²	0.3	10.2	1.4	17	0.8	585	263
20222960	3x6/6mm² Cl5	0.3	10.2	1.4	17.5	0.8	620	264
20110485	3x10/10mm²	0.3	11.9	1.4	19	0.8	775	380
20172573	3G10mm²	0.3	11.9	1.4	19	0.8	775	380
20172574	3G16mm²	0.3	13.6	1.5	21	1	1,040	554
20110488	3x16/16mm²	0.4	18.1	1.5	21.5	1	1,085	598
20180325	3G25mm²	0.3	15.3	1.6	25	1	1,450	817
20110490	3x25/16mm²	0.3	17.8	1.6	25	1	1,475	839
20171449	3x25/16mm²	0.3	20.4	1.6	27.5	1	1,655	887
20297777	2x35+E25mm²	0.3	17.8	1.7	27.5	1	1,780	1,005
20110492	3x35/16mm²	0.3	17.8	1.7	27.5	1	1,845	1,089
20224950	3G35mm²	0.3	17.8	1.7	27.5	1	1,845	1,089
20110494	3x50/25mm²	0.4	27.1	1.9	32.5	1.5	2,510	1,506
20172943	3x50/25mm² Cl5	0.4	31.7	1.9	37	1.5	2,960	1,681
20109424	3x70/35mm²	0.5	42.4	2.2	37	1.5	3,505	2,252
20109426	3x95/50mm²	0.5	49.5	2.2	42.5	2	4,630	2,962
20222962	3x95/50mm² Cl5	0.61	63.1	2.2	45	2	4,790	2,918
20109429	3x120/60mm²	0.61	63.1	2.3	47	2	5,770	3,820
20222963	3x120/60mm² Cl5	0.61	73.6	2.3	53	2.5	6,485	4,014
20224951	3G150mm²	0.4	45.2	2.5	50.5	2.5	6,630	4,324
20109430	3x150/75mm² *)	0.4	90.5	2.6	52	2.5	7,150	4,769
20222964	3x150/75mm² Cl5	0.4	90.5	2.6	58	2.5	8,110	5,135
20109425	3x185/95mm² *)	0.5	113.1	2.7	57.5	2.5	8,760	5,950
20222961	3x185/95mm² Cl5	0.5	113	2.7	61	3	8,890	5,638
20109431	3x240/120mm² *)	0.61	147.2	3	65	3	11,360	7,858

Dimensional data Part 2

SAP code	Basic construction	Diameter braid wire [mm]	Mechanical cross section reinforcement [mm²]	Nominal thickness outer sheath [mm]	Nominal outer diameter [mm]	Tolerance diameter outer sheath [±mm]	Cable weight [kg/km]	Copper weight [kg/km]
20110470	4x1.5/6mm²	0.3	8.5	1.3	14.5	0.8	375	137
20170924	4G1.5mm²	0.3	8.5	1.3	14.5	0.8	375	137
20110476	4x2.5/6mm²	0.3	10.2	1.3	15.5	0.8	455	185
20171027	4G2.5mm²	0.3	10.2	1.3	15.5	0.8	455	185
20133496	4G4mm²	0.3	10.2	1.4	16.5	0.8	550	238
20110479	4x4/6mm²	0.3	10.2	1.4	16.5	0.8	555	238
20110483	4x6/10mm²	0.3	11.9	1.4	18	0.8	695	333
20117131	4G6mm²	0.3	11.9	1.4	18	0.8	695	333
20172232	4G10mm²	0.3	13.6	1.5	20.5	1	930	485
20110486	4x10/10mm²	0.3	13.6	1.5	20.5	1	940	485
20172267	4G16mm²	0.3	15.3	1.6	23	1	1,270	711
20110489	4x16/16mm²	0.3	17.8	1.6	23	1	1,295	735
20297770	3x25+E16mm²	0.3	17.8	1.7	27.5	1	1,740	980
20110491	4x25/16mm²	0.3	17.8	1.7	27.5	1	1,800	1,061
20172269	4G25mm²	0.3	17.8	1.7	27.5	1	1,800	1,061
20110493	4x35/16mm²	0.3	20.4	1.8	30.5	1.5	2,290	1,418
20172341	4G35mm²	0.3	20.4	1.8	30.5	1.5	2,295	1,418
20168791	4x35/16mm² Cl5	0.3	20.4	1.8	33.5	1.5	2,505	1,438
20297771	3x50+E25mm²	0.3	22.9	1.9	35	1.5	2,860	1,687
20174266	4G50mm²	0.3	22.9	2	35	1.5	3,035	1,880
20110495	4x50/25mm²	0.4	27.1	2	35.5	1.5	3,080	1,922
20172467	4G70mm²	0.4	40.7	2.2	40.5	2	4,310	2,849
20136469	4x70/35mm²	0.4	40.7	2.2	40.5	2	4,310	2,849
20138643	4G95mm²	0.4	40.7	2.4	46	2	5,620	3,705
20297772	3x95+E50mm²	0.4	40.7	2.3	46.5	2	5,265	3,292
20109427	4x95/50mm²	0.5	49.5	2.4	47	2	5,705	3,790
20297773	3x120+E70mm²	0.4	40.7	2.4	51	2.5	6,485	4,220
20204196	4G120mm²	0.4	45.2	2.5	51	2.5	6,925	4,716
20132986	4x120/60mm²	0.61	63.1	2.5	51.5	2.5	7,115	4,889
20297774	3x150+E95mm²	0.4	45.2	2.6	55.5	2.5	7,915	5,154

Dimensional data Part 2

SAP code	Basic construction	Diameter braid wire [mm]	Mechanical cross section reinforcement [mm²]	Nominal thickness outer sheath [mm]	Nominal outer diameter [mm]	Tolerance diameter outer sheath [±mm]	Cable weight [kg/km]	Copper weight [kg/km]
20114321	4G150 mm²	0.5	56.5	2.7	56	2.5	8,445	5,731
20138527	4x150/75mm² *)	0.4	90.5	2.8	57.5	2.5	8,860	6,072
20204197	4G185 mm²	0.5	56.5	2.9	62	3	10,230	7,003
20150519	4x185/95mm² *)	0.5	113.1	3	63.5	3	10,865	7,582
20204149	5G1.5mm²	0.3	10.2	1.3	15	0.8	440	167
20111209	5x1.5/6 mm²	0.3	10.2	1.3	15	0.8	440	167
20222521	5x2.5/6 mm²	0.3	10.2	1.4	16.5	0.8	520	207
20114348	5G2.5mm²	0.3	10.2	1.4	16.5	0.8	520	207
20204162	5x4/10 mm²	0.3	11.9	1.4	18	0.8	650	289
20204161	5G4mm²	0.3	11.9	1.4	18	0.8	650	289
20217564	5x6/10 mm²	0.3	11.9	1.5	19.5	0.8	810	390
20204188	5G6mm²	0.3	11.9	1.5	19.5	0.8	820	390
20170625	5G10mm²	0.3	15.3	1.5	22	1	1,110	589
20204189	5G16mm²	0.3	17.8	1.6	25	1	1,510	876
20181998	5G25mm²	0.3	20.4	1.8	30	1.5	2,150	1,308
20227783	5x25/16 mm²	0.3	20.4	1.8	30	1.5	2,150	1,308
20297775	4x35+E 25mm²	0.3	22.9	1.9	33.5	1.5	2,670	1,662
20204190	5G35mm²	0.3	22.9	1.9	33.5	1.5	2,740	1,746
20285228	5G50mm²	0.4	36.2	2.1	39	1.5	3,820	2,424
20297776	4x70+E 35mm²	0.4	36.2	2.2	44.5	2	4,855	3,110
20204194	5G70mm²	0.4	40.7	2.3	44.5	2	5,175	3,462
20221402	5x70/35 mm²	0.4	40.7	2.3	44.5	2	5,180	3,463
20285299	5G95mm²	0.4	45.2	2.5	51.5	2.5	6,795	4,575
20204195	5G120 mm²	0.5	49.5	2.7	56.5	2.5	8,470	5,830
20132887	5G150 mm²	0.5	56.5	2.9	62	3	10,160	7,034
20110471	7x1.5/6 mm²	0.3	10.2	1.3	16	0.8	490	194
20172517	7G2.5mm²	0.3	11.9	1.4	17.5	0.8	605	266
20156200	7x2.5/10mm²	0.3	11.9	1.4	17.5	0.8	605	266
20327978	8G1.5mm²	0.3	11.9	1.4	17.5	0.8	575	224
20104950	12x1.5/10mm²	0.3	13.6	1.5	20	1	720	294

Dimensional data Part 2

SAP code	Basic construction	Diameter braid wire [mm]	Mechanical cross section reinforcement [mm²]	Nominal thickness outer sheath [mm]	Nominal outer diameter [mm]	Tolerance diameter outer sheath [±mm]	Cable weight [kg/km]	Copper weight [kg/km]
20109423	12x2.5/10 mm²	0.3	15.3	1.6	22	1	895	405
20110472	19x1.5/10 mm²	0.3	15.3	1.6	23	1	970	404
20120716	19x2.5/16 mm²	0.3	17.8	1.7	25.5	1	1,240	581
20328155	20G1.5m m²	0.3	17.8	1.7	24.5	1	1,085	443
20356834	24x1.5/16 mm²	0.3	17.8	1.8	26.5	1	1,210	497
20204256	27x1.5/16 mm²	0.3	17.8	1.8	27	1	1,300	541
20183112	27x2.5/16 mm²	0.3	20.4	1.9	30	1.5	1,665	778
20328156	28G1.5m m²	0.3	20.4	1.8	28	1	1,385	575
20204257	37x1.5/16 mm²	0.3	20.4	1.9	30	1.5	1,650	699
20114663	37x2.5/16 mm²	0.3	22.9	2	34	1.5	1,930	889
20168266	47x1.5/16 mm²	0.3	25.4	2	33.5	1.5	2,035	876

*) These cables have double braids (see under Basic construction)

Electrical values power cables

SAP code	Basic construction	Conductor resistance at 20° C [Ohm/km]	Conductor resistance at operation temperature [Ohm/km]	Inductive Reactance (at 50Hz)	Inductive Reactance (at 60Hz)	Current carrying capacity [A]	Short circuit current conductor (1sec) [kA]	Short circuit current conductor (5sec) [kA]
20194476	1x16/4mm²	1.16	1.48	0.115	0.138	96	2.24	1
20139734	1x25/4mm²	0.734	0.936	0.11	0.132	127	3.5	1.57
20183111	1x35/6mm²	0.529	0.675	0.107	0.128	157	4.9	2.19
20204253	1x50/6mm²	0.391	0.499	0.104	0.124	196	7	3.13
20151455	1x70/10mm²	0.27	0.344	0.098	0.117	242	9.8	4.38
20151456	1x95/10mm²	0.195	0.249	0.095	0.114	293	13.3	5.95
20132989	1x120/10 mm²	0.154	0.196	0.092	0.11	339	16.8	7.51
20133004	1x150/10 mm²	0.126	0.161	0.091	0.109	389	21	9.39
20136468	1x185/16 mm²	0.1	0.128	0.09	0.108	444	25.9	11.58
20110465	1x240/16 mm²	0.0762	0.0972	0.088	0.105	522	33.6	15
20110466	1x300/16 mm²	0.0607	0.0774	0.086	0.104	601	42	18.7
20110761	1x400/25 mm²	0.0475	0.0596	0.085	0.101	670	56	25.04
20204254	1x500/25 mm²	0.0396	0.0463	0.083	0.1	720	70	31.3
20204255	1x630/35 mm²	0.0286	0.0359	0.081	0.097	780	88.2	39.44
20110467	2x1.5/4mm²	12.2	15.6	0.11	0.132	20	0.21	0.09
20110473	2x2.5/4mm²	7.56	9.64	0.103	0.123	26	0.35	0.15
20110477	2x4/6mm²	4.7	5.99	0.096	0.115	34	0.56	0.25
20222958	2x4/6mm² Cl5	5.09	6.49	0.094	0.113	34	0.56	0.25
20110481	2x6/6mm²	3.11	3.97	0.091	0.109	44	0.84	0.38
20222959	2x6/6mm² Cl5	3.39	4.32	0.089	0.107	44	0.84	0.38
20110484	2x10/10mm²	1.84	2.35	0.085	0.102	61	1.4	0.63
20110487	2x16/16mm²	1.16	1.48	0.08	0.096	80	2.24	1
20183090	2x50/25mm²	0.391	0.499	0.077	0.092	167	7	3.13
20172571	2x70/35mm²	0.27	0.344	0.074	0.089	16.5	9.8	4.38
20172572	2x95/50mm²	0.195	0.249	0.074	0.088	249	13.3	5.95
20109428	2x120/60 mm²	0.154	0.196	0.072	0.087	288	16.8	7.5
20110469	3x1.5/4mm²	12.2	15.6	0.11	0.132	16	0.21	0.09
20110468	3G1.5mm²	12.2	15.6	0.11	0.132	20	0.21	0.09
20222957	3x1.5/4mm² Cl5	13.7	17.47	0.11	0.132	16	0.21	0.09
20110474	3G2.5mm²	7.56	9.64	0.103	0.123	26	0.35	0.15

Electrical values power cables

SAP code	Basic construction	Conductor resistance at 20° C [Ohm/km]	Conductor resistance at operation temperature [Ohm/km]	Inductive Reactance (at 50Hz)	Inductive Reactance (at 60Hz)	Current carrying capacity [A]	Short circuit current conductor (1sec) [kA]	Short circuit current conductor (5sec) [kA]
20110475	3x2.5/6mm²	7.56	9.64	0.103	0.123	21	0.35	0.15
20233141	3G2.5mm²	8.21	10.459	0.103	0.123	26	0.35	0.16
20110480	3G4mm²	4.7	5.99	0.096	0.115	34	0.56	0.25
20110478	3x4/6mm²	4.7	5.99	0.096	0.115	28	0.56	0.25
20132988	3G6mm²	3.11	3.97	0.091	0.109	44	0.84	0.38
20110482	3x6/6mm²	3.11	3.97	0.091	0.109	36	0.84	0.38
20222960	3x6/6mm² Cl5	3.39	4.32	0.089	0.107	36	0.84	0.38
20110485	3x10/10mm²	1.84	2.35	0.085	0.102	50	1.4	0.63
20172573	3G10mm²	1.84	2.35	0.085	0.102	61	1.4	0.63
20172574	3G16mm²	1.16	1.48	0.08	0.096	82	2.24	1
20110488	3x16/16mm²	1.16	1.48	0.08	0.096	67	2.24	1
20180325	3G25mm²	0.734	0.936	0.08	0.095	108	3.5	1.57
20110490	3x25/16mm²	0.734	0.936	0.08	0.095	89	3.5	1.57
20171449	3x25/16mm²	0.795	1.014	0.077	0.093	89	3.5	1.6
20297777	2x35+E25mm²	0.529	0.675	0.077	0.092	133	4.9	2.19
20110492	3x35/16mm²	0.529	0.675	0.077	0.092	110	4.9	2.19
20224950	3G35mm²	0.529	0.675	0.077	0.092	133	4.9	2.19
20110494	3x50/25mm²	0.391	0.499	0.077	0.092	137	7	3.13
20172943	3x50/25mm² Cl5	0.393	0.5011	0.074	0.089	137	7	3.13
20109424	3x70/35mm²	0.27	0.344	0.074	0.089	169	9.8	4.38
20109426	3x95/50mm²	0.195	0.249	0.074	0.088	205	13.3	5.95
20222962	3x95/50mm² Cl5	0.21	0.2678	0.072	0.086	205	13.3	5.95
20109429	3x120/60mm²	0.154	0.196	0.072	0.087	237	16.8	7.5
20222963	3x120/60mm² Cl5	0.164	0.2091	0.07	0.084	237	16.8	7.51
20224951	3G150mm²	0.126	0.161	0.072	0.087	331	21	9.69
20109430	3x150/75mm² *)	0.126	0.161	0.072	0.087	272	21	9.3
20222964	3x150/75mm² Cl5	0.132	0.1683	0.071	0.085	273	21	9.39
20109425	3x185/95mm² *)	0.1	0.128	0.072	0.086	311	25.9	11.5
20222961	3x185/95mm² Cl5	0.108	0.1377	0.071	0.085	311	25.9	11.58
20109431	3x240/120mm² *)	0.0762	0.0972	0.072	0.086	365	33.6	15

Electrical values power cables

SAP code	Basic construction	Conductor resistance at 20° C [Ohm/km]	Conductor resistance at operation temperature [Ohm/km]	Inductive Reactance (at 50Hz)	Inductive Reactance (at 60Hz)	Current carrying capacity [A]	Short circuit current conductor (1sec) [kA]	Short circuit current conductor (5sec) [kA]
20110470	4x1.5/6mm²	12.2	15.6	0.11	0.132	16	0.21	0.09
20170924	4G1.5mm²	12.2	15.6	0.11	0.132	16	0.21	0.09
20110476	4x2.5/6mm²	7.56	9.64	0.103	0.123	21	0.35	0.15
20171027	4G2.5mm²	7.56	9.64	0.103	0.123	21	0.35	0.16
20133496	4G4mm²	4.7	5.99	0.096	0.115	28	0.56	0.25
20110479	4x4/6mm²	4.7	5.99	0.096	0.115	28	0.56	0.25
20110483	4x6/10mm²	3.11	3.97	0.091	0.109	36	0.84	0.38
20117131	4G6mm²	3.11	3.97	0.091	0.109	36	0.84	0.38
20172232	4G10mm²	1.84	2.35	0.085	0.102	50	1.4	0.63
20110486	4x10/10mm²	1.84	2.35	0.085	0.102	50	1.4	0.63
20172267	4G16mm²	1.16	1.48	0.08	0.096	67	2.24	1
20110489	4x16/16mm²	1.16	1.48	0.08	0.096	67	2.24	1
20297770	3x25+E16mm²	0.734	0.936	0.08	0.095	89	3.5	1.57
20110491	4x25/16mm²	0.734	0.936	0.08	0.095	89	3.5	1.57
20172269	4G25mm²	0.734	0.936	0.08	0.095	89	3.5	1.57
20110493	4x35/16mm²	0.529	0.675	0.077	0.092	110	4.9	2.19
20172341	4G35mm²	0.529	0.675	0.077	0.092	110	4.9	2.19
20168791	4x35/16mm² Cl5	0.565	0.7204	0.075	0.09	110	4.9	2.19
20297771	3x50+E25mm²	0.391	0.499	0.077	0.092	137	7	3.13
20174266	4G50mm²	0.391	0.499	0.077	0.092	137	7	3.13
20110495	4x50/25mm²	0.391	0.499	0.077	0.092	137	7	3.13
20172467	4G70mm²	0.27	0.344	0.074	0.089	169	9.8	4.38
20136469	4x70/35mm²	0.27	0.344	0.074	0.089	169	9.8	4.38
20138643	4G95mm²	0.195	0.249	0.074	0.088	205	13.3	5.95
20297772	3x95+E50mm²	0.195	0.249	0.074	0.088	205	13.3	5.95
20109427	4x95/50mm²	0.195	0.249	0.074	0.088	205	13.3	5.95
20297773	3x120+E70mm²	0.154	0.196	0.072	0.087	237	16.8	7.51
20204196	4G120mm²	0.154	0.196	0.072	0.087	237	16.8	7.51
20132986	4x120/60mm²	0.154	0.196	0.072	0.087	237	15.8	7.51
20297774	3x150+E95mm²	0.126	0.161	0.072	0.087	273	21	9.39

Electrical values power cables

SAP code	Basic construction	Conductor resistance at 20° C [Ohm/km]	Conductor resistance at operation temperature [Ohm/km]	Inductive Reactance (at 50Hz)	Inductive Reactance (at 60Hz)	Current carrying capacity [A]	Short circuit current conductor (1sec) [kA]	Short circuit current conductor (5sec) [kA]
20114321	4G150mm²	0.126	0.161	0.072	0.087	272	21	9.39
20138527	4x150/75mm² *)	0.126	0.161	0.072	0.087	272	21	9.39
20204197	4G185mm²	0.1	0.128	0.072	0.087	311	25.9	11.58
20150519	4x185/95mm² *)	0.1	0.128	0.072	0.086	311	25.9	11.58
20204149	5G1.5mm²	12.2	15.6	0.11	0.132	16	0.21	0.09
20111209	5x1.5/6mm²	12.2	15.6	0.11	0.132	13.5	0.21	0.09
20222521	5x2.5/6mm²	7.56	9.64	0.103	0.123	18	0.35	0.16
20114348	5G2.5mm²	7.56	9.64	0.103	0.123	21	0.35	0.16
20204162	5x4/10mm²	4.7	5.99	0.096	0.115	23	0.56	0.25
20204161	5G4mm²	4.7	5.99	0.096	0.115	28	0.56	0.25
20217564	5x6/10mm²	3.11	3.97	0.091	0.109	30	0.84	0.38
20204188	5G6mm²	3.11	3.97	0.091	0.109	36	0.84	0.38
20170625	5G10mm²	1.84	2.35	0.085	0.102	67	1.4	0.63
20204189	5G16mm²	1.16	1.48	0.08	0.096	67	2.24	1
20181998	5G25mm²	0.734	0.936	0.08	0.095	89	3.5	1.57
20227783	5x25/16mm²	0.734	0.936	0.08	0.095	74	3.5	1.57
20297775	4x35+E25mm²	0.529	0.675	0.077	0.092	110	4.9	2.19
20204190	5G35mm²	0.529	0.675	0.077	0.092	110	4.9	2.19
20285228	5G50mm²	0.391	0.499	0.077	0.092	137	7	3.13
20297776	4x70+E35mm²	0.27	0.344	0.074	0.089	169	9.8	4.38
20204194	5G70mm²	0.27	0.344	0.074	0.089	169	9.8	4.38
20221402	5x70/35mm²	0.27	0.344	0.074	0.089	141.5	9.8	4.38
20285299	5G95mm²	0.195	0.249	0.074	0.088	205	13.3	5.95
20204195	5G120mm²	0.154	0.196	0.074	0.089	237	16.8	7.51
20132887	5G150mm²	0.126	0.161	0.072	0.087	272	21	9.39
20110471	7x1.5/6mm²	12.2	15.6	0.11	0.132	12	0.21	0.09
20172517	7G2.5mm²	7.56	9.64	0.103	0.123	22	0.35	0.16
20156200	7x2.5/10mm²	7.56	9.64	0.103	0.123	15.5	0.35	0.16
20327978	8G1.5mm²	12.2	15.6	0.11	0.132	12	0.21	0.09
20104950	12x1.5/10mm²	12.2	15.6	0.11	0.132	10	0.21	0.09

Electrical values power cables

SAP code	Basic construction	Conductor resistance at 20° C [Ohm/km]	Conductor resistance at operation temperature [Ohm/km]	Inductive Reactance (at 50Hz)	Inductive Reactance (at 60Hz)	Current carrying capacity [A]	Short circuit current conductor (1sec) [kA]	Short circuit current conductor (5sec) [kA]
20109423	12x2.5/10 mm²	7.56	9.64	0.103	0.123	13	0.35	0.15
20110472	19x1.5/10 mm²	12.2	15.6	0.11	0.132	8.5	0.21	0.09
20120716	19x2.5/16 mm²	7.56	9.64	0.103	0.123	11	0.35	0.16
20328155	20G1.5m m²	12.2	15.6	0.11	0.132	9	0.21	0.09
20356834	24x1.5/16 mm²	12.2	15.6	0.11	0.132	8	0.21	0.09
20204256	27x1.5/16 mm²	12.2	15.6	0.11	0.132	7.5	0.21	0.09
20183112	27x2.5/16 mm²	7.56	9.64	0.103	0.123	10	0.35	0.16
20328156	28G1.5m m²	12.2	15.6	0.11	0.132	7.5	0.21	0.09
20204257	37x1.5/16 mm²	12.2	15.6	0.11	0.132	7	0.21	0.09
20114663	37x2.5/16 mm²	7.56	9.64	0.103	0.123	9	0.35	0.16
20168266	47x1.5/16 mm²	12.2	15.6	0.11	0.132	6.4	0.21	0.09

Current Rating IEC 61892-4 Table 4 at 45°C ambient temperature. Maximum operating conductor temperature = 90°C

Ambient temperature correction factors

Ambient temperature °C / Omgivelsestemperatur °C	35	40	45	50	55	60	65	70	75	80
Rating factor / Korreksjonsfaktor	1,10	1,05	1,00	0,94	0,88	0,82	0,74	0,67	0,58	0,47

Bending RADII & pulling recommendations

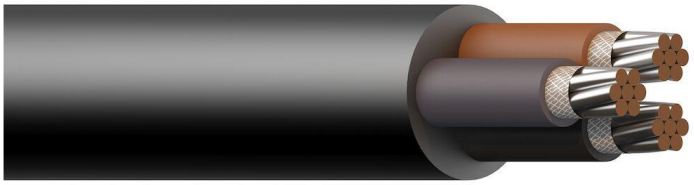
Minimum Bending Radius During Installation / Minimum bøyeradius under installasjon	Minimum Bending Radius Fixed Installed / Minimum bøyeradius ferdig installert	Maximum Tensile Load During Installation / Maksimum trekkraft ved installasjon	Minimum Installation Temperature / Minimum installasjons temperature
8 x D	6 x D	50 N x total cross section (mm²) of conductors / 50 N x totalt ledertverrsnitt (mm²)	- 20 °C

D = Cable overall diameter

Draka

BU M 0,6/1(1,2)KV P17/P110

MGT/EPR/SHF2



Application

Unarmoured Fire resistant, flame retardant halogen-free power cable. Fixed installation for power, control and lighting in safe areas, emergency and critical systems where requirement for fire resistance exists. BU M 1kV meets the Oil & Mud resistance requirement in NEK TS 606:2022. These cables are double-insulated and Single core cables are used as battery cables. Offshore, Oil & Gas.

Cable construction

Conductor material	Copper
Conductor surface	Tinned
Core insulation material	Mica + polymer
Material outer sheath	EVA rubber
Cable shape	Round
Max. conductor temperature [°C]	90
Max. conductor temperature at short circuit [°C]	250

Marking text on Outer Sheath (example)

"meter" "year/week" DRAKA 01 Part no. BU M 0,6/1kV P17/P110 1 x 70 mm2 IEC 60092-353 IEC 60331-1*) or IEC 60331-2*) IEC 60331-21**) IEC 60332-3-22 Production no.
*) IEC 60331-1 for cables with an overall diameter exceeding 20 mm and IEC 60331-2 for cables with an overall diameter not exceeding 20 mm **) IEC 60331-21 also at enhanced temperature 1000°C for 180 minutes

Core identification power cables
Single core - Black
Two cores - Blue - Brown
Three cores - Brown - Black - Grey
Four cores - Blue - Brown - Black - Grey
Five cores - Blue - Brown - Black - Grey - Black
Seven cores and above – White cores with black numbers
Two cores + earth (3G) - Yellow/green - Blue - Brown
Three cores + earth (4G) - Yellow/green - Brown - Black - Grey
Four cores + earth (5G) - Yellow/green - Blue - Brown - Black - Grey
G / X in cable description - G = One of the cores is Yellow/Green - X = no Yellow/Green core
Core colours in acc. with HD308S2 and IEC 60445 Ed 5.0 2010-08

Standards applied

NEK TS 606:2022	Cables for offshore installations
IEC 60092-353	Design standard
IEC 60228 Class 2 or class 5	Conductors
IEC 60092-360	Insulation and sheath
IEC 60092-350	General construction and test methods for power, control and instrumentation cables for shipboard and offshore applications
IEC 61892-4 Table 4	Current rating at 45°C ambient temperature IEC 61892-4 Table 4
IEC 60331-1/2 and IEC 60331-21	Fire resistant properties: IEC 60331-1 & -2 (120 minutes @ 830°C), IEC 60331-21 (180 minutes @ 1000°C)
IEC 60332-1-2 and IEC 60332-3-22(Cat.A)	Flame retardant properties
IEC 60754-1 and IEC 60754-2	Halogen free properties: IEC 60754-1 (pH ≥ 4,3, Conductivity ≤ 10µS), IEC 60754-2 (< 0,5% Halogen)
IEC 61034-1, -2	Low smoke properties: IEC 61034-1, -2 (minimum 60% light transmittance)
Oil resistant IEC 60092-360	IRM 902 oil (168 hours @ 100°C)
MUD resistant (IEC 60092-360 & NEK TS 606)	IRM 903 oil (168 hours @ 100°C), Calcium Bromide Brine (56 days @ 70°C), EDC 95-11 base oil (56 days @ 70°C)
ISO 4892 part 3	UV and Ozone resistance

Application properties

Test voltage [kV]	8.4
Min. outer temperature, fixed installation [°C]	-52
Max. outer temperature, fixed installation [°C]	75
Low temperature resistant (acc. EN 60811-504+505+506)	Yes
Outdoor installation	Yes
Max. outer temperature during installation [°C]	50
Bending radius (rule)	4 x OD or 6 x D (overall diameter), see separate table in datasheet
Certified for shipboard application	Yes

Product range

SAP code	Basic construction	Colour outer steath	Conductor category	EL no.	EAN-code (GTIN)	Semco Part Code
20130809	1x10mm2	Black	Class 2 = stranded	20130809	7021528012149	On request
20157866	1x16mm2	Black	Class 2 = stranded	20157866	7021528012002	8000061
20147973	1x25mm2	Black	Class 2 = stranded	1061201	7021528012019	On request
20110766	1x35mm2	Black	Class 2 = stranded	20110766	7021528012026	8035267
20121092	1x50mm²	Black	Class 2 = stranded	1061203	7021528012033	8000106
20110767	1x70mm2	Black	Class 2 = stranded	20110767	7021528012040	On request
20139920	1x95mm2	Black	Class 2 = stranded	1061205	7021528012057	On request
20121093	1x120mm2	Black	Class 2 = stranded	20121093	7021528012064	On request
20109454	1x150mm2	Black	Class 2 = stranded	1061207	7021528012071	On request
20132893	1x185mm2	Black	Class 2 = stranded	20132893	7021528012088	On request
20140646	1x240mm2	Black	Class 2 = stranded	20140646	7021528012095	On request
20109455	2x1,5mm2	Black	Class 2 = stranded	20109455	7021528012156	8000132
20170925	2x2,5mm2	Black	Class 2 = stranded	20170925	7021528012330	On request
20154740	2x4mm²	Black	Class 2 = stranded	20154740	7021528012521	On request
20109458	2x6mm2	Black	Class 2 = stranded	20109458	7021528012590	8000180
20184612	2x10mm2	Black	Class 2 = stranded	20184612	7021528012668	On request
20112689	3G1,5mm2	Black	Class 2 = stranded	20112689	7021528012163	8002524
20134055	3x2,5mm2	Black	Class 2 = stranded	20134055	7021528012361	On request
20096771	3G2,5mm2	Black	Class 2 = stranded	20096771	7021528012347	8001773
20184101	3G4mm2	Black	Class 2 = stranded	20184101	7021528012545	On request
20109456	3x4mm²	Black	Class 2 = stranded	20109456	7021528012538	On request
20169925	3x6mm2	Black	Class 2 = stranded	20169925	7021528012613	On request
20121091	3x16mm2	Black	Class 2 = stranded	20121091	7021528012736	8000207
20154742	3x70mm²	Black	Class 2 = stranded	20154742	7021528012941	On request
20194465	3x120mm2	Black	Class 2 = stranded	20194465	7021528012972	On request
20326952	4x1,5mm²	Black	Class 2 = stranded	20326952	7021528012194	On request
20117121	4G2,5mm2	Black	Class 2 = stranded	20117121	7021528012378	On request
20109457	4G4mm2	Black	Class 2 = stranded	20109457	7021528012569	On request
20109459	4G6mm²	Black	Class 2 = stranded	20109459	7021528012620	On request
20109460	4G10mm²	Black	Class 2 = stranded	20109460	7021528012699	On request

Product range

SAP code	Basic construction	Colour outer steath	Conductor category	EL no.	EAN-code (GTIN)	Semco Part Code
20113144	4G16mm2	Black	Class 2 = stranded	20113144	7021528012750	8006911
20297781	3x25+E16mm²	Black	Class 2 = stranded	20297781	7021528879148	On request
20196759	4G25mm2	Black	Class 2 = stranded	20296759	7021528012826	On request
20109461	4G35mm²	Black	Class 2 = stranded	20109461	7021528012897	On request
20154741	4x50mm²	Black	Class 2 = stranded	20154741	7021528012934	On request
20109462	4G150mm²	Black	Class 2 = stranded	20109462	7021528013078	On request
20131218	5G2,5mm2	Black	Class 2 = stranded	20131218	7021528012408	8080095
20149812	5G4mm²	Black	Class 2 = stranded	20149812	7021528012583	On request
20169924	7x1,5mm2	Black	Class 2 = stranded	20169924	7021528012255	On request
20172950	7x2,5mm2	Black	Class 2 = stranded	20172950	7021528012446	On request
20155435	12x1,5mm²	Black	Class 2 = stranded	20155435	7021528012262	On request
20204199	19x1,5mm2	Black	Class 2 = stranded	20204199	7021528012286	8000052
20326953	24x1,5mm²	Black	Class 2 = stranded	20326953	7021528012293	On request

Dimensional data

SAP code	Basic construction	Diameter conductor [mm]	Nominal thickness insulation [mm]	Nominal diameter over insulation [mm]	Nominal thickness outer sheath [mm]	Nominal outer diameter [mm]	Tolerance diameter outer sheath [±mm]	Cable weight [kg/km]	Copper weight [kg/km]
20130809	1x10mm2	4	1	6.2	1	8.5	0.5	162	88
20157866	1x16mm2	5.05	1	7.3	1.1	9.5	0.5	228	140
20147973	1x25mm2	6.3	1.2	9	1.1	11	0.8	340	221
20110766	1x35mm2	7.4	1.2	10.1	1.2	12.5	0.8	445	304
20121092	1x50mm²	8.75	1.4	11.8	1.2	14	0.8	585	414
20110767	1x70mm2	10.6	1.4	13.6	1.3	16	0.8	820	612
20139920	1x95mm2	12.35	1.6	15.8	1.4	18.5	0.8	1,085	825
20121093	1x120mm2	14	1.6	17.4	1.4	20	1	1,355	1,067
20109454	1x150mm2	15.45	1.8	19.3	1.5	22.5	1	1,650	1,291
20132893	1x185mm2	17.3	2	21.4	1.6	24.5	1	2,020	1,606
20140646	1x240mm2	19.85	2.2	24.4	1.7	28	1	2,635	2,117
20109455	2x1,5mm2	1.6	1	3.8	1.1	9.5	0.5	150	27
20170925	2x2,5mm2	2	1	4.2	1.1	10.5	0.8	185	43
20154740	2x4mm²	2.5	1	4.7	1.1	11.5	0.8	235	70
20109458	2x6mm2	3.1	1	5.3	1.2	13	0.8	313	109
20184612	2x10mm2	4	1	6.2	1.2	14.5	0.8	430	176
20112689	3G1,5mm2	1.6	1	3.8	1.1	10	0.8	175	40
20134055	3x2,5mm2	2	1	4.2	1.1	11	0.8	218	64
20096771	3G2,5mm2	2	1	4.2	1.1	11	0.8	218	64
20184101	3G4mm2	2.5	1	4.7	1.2	12.5	0.8	295	104
20109456	3x4mm²	2.5	1	4.7	1.2	12.5	0.8	295	104
20169925	3x6mm2	3.1	1	5.3	1.2	13.5	0.8	380	163
20121091	3x16mm2	5.05	1	7.3	1.4	18.5	0.8	770	421
20154742	3x70mm²	10.6	1.4	13.6	1.9	33	1.5	2,845	1,840
20194465	3x120mm2	14	1.6	17.4	2.1	41.5	2	4,740	3,208
20326952	4x1,5mm²	1.6	1	3.8	1.1	11	0.8	206	54
20117121	4G2,5mm2	2	1	4.2	1.2	12.5	0.8	268	86
20109457	4G4mm2	2.5	1	4.7	1.2	13.5	0.8	355	139
20109459	4G6mm²	3.1	1	5.3	1.3	15.5	0.8	475	217

Dimensional data

SAP code	Basic construction	Diameter conductor [mm]	Nominal thickness insulation [mm]	Nominal diameter over insulation [mm]	Nominal thickness outer sheath [mm]	Nominal outer diameter [mm]	Tolerance diameter outer sheath [±mm]	Cable weight [kg/km]	Copper weight [kg/km]
20109460	4G10mm²	4	1	6.2	1.3	17.5	0.8	670	352
20113144	4G16mm2	5.05	1	7.3	1.4	20	1	965	561
20297781	3x25+E16mm²	6.3	1.2	9	1.5	24.5	1	1,420	806
20196759	4G25mm2	6.3	1.2	9	1.6	25	1	1,490	887
20109461	4G35mm²	7.4	1.2	10.1	1.7	27.5	1	1,935	1,219
20154741	4x50mm²	8.75	1.4	11.8	1.8	31.5	1.5	2,565	1,658
20109462	4G150mm²	15.4	1.8	19.3	2.5	51.5	2.5	7,395	5,177
20131218	5G2,5mm2	2	1	4.2	1.2	13.5	0.8	330	107
20149812	5G4mm²	2.5	1	4.7	1.3	15.5	0.8	440	173
20169924	7x1,5mm2	1.6	1	3.8	1.2	13.5	0.8	310	94
20172950	7x2,5mm2	2	1	4.2	1.3	15	0.8	405	150
20155435	12x1,5mm²	1.6	1	3.8	1.4	18	0.8	490	161
20204199	19x1,5mm2	1.6	1	3.8	1.5	21	1	730	255
20326953	24x1,5mm²	1.6	1	3.8	1.6	25	1	920	322

Electrical values power cables

SAP code	Basic construction	Conductor resistance at 20° C [Ohm/km]	Conductor resistance at operation temperature [Ohm/km]	Inductive Reactance (at 50Hz)	Inductive Reactance (at 60Hz)	Current carrying capacity [A]	Short circuit current conductor (1sec) [kA]	Short circuit current conductor (5sec) [kA]
20130809	1x10mm2	1.84	2.35			72	1.4	0.62
20157866	1x16mm2	1.16	1.48			96	2.24	1
20147973	1x25mm2	0.734	0.936			127	3.5	1.56
20110766	1x35mm2	0.529	0.675			157	4.9	2.19
20121092	1x50mm²	0.391	0.499			196	7	3.13
20110767	1x70mm2	0.27	0.344			242	9.8	4.38
20139920	1x95mm2	0.195	0.249			293	13.3	5.94
20121093	1x120mm2	0.154	0.196			339	16.8	7.51
20109454	1x150mm2	0.126	0.161			389	21	9.39
20132893	1x185mm2	0.1	0.128			444	25.9	11.58
20140646	1x240mm2	0.0762	0.0972			522	33.6	15
20109455	2x1,5mm2	12.2	15.6			20	0.21	0.09
20170925	2x2,5mm2	7.56	9.64			26	0.35	0.15
20154740	2x4mm²	4.7	5.99			34	0.56	0.25
20109458	2x6mm2	3.11	3.97			44	0.84	0.37
20184612	2x10mm2	1.84	2.35			61	1.4	0.62
20112689	3G1,5mm2	12.2	15.6			20	0.21	0.09
20134055	3x2,5mm2	7.56	9.64			21	0.35	0.15
20096771	3G2,5mm2	7.56	9.64			26	0.35	0.15
20184101	3G4mm2	4.7	5.99			34	0.56	0.25
20109456	3x4mm²	4.7	5.99			28	0.56	0.25
20169925	3x6mm2	3.11	3.97			36	0.84	0.37
20121091	3x16mm2	1.16	1.48			67	2.24	1
20154742	3x70mm²	0.27	0.344			169	9.8	4.38
20194465	3x120mm2	0.154	0.196			237	16.8	7.51
20326952	4x1,5mm²	12.2	15.6			16	0.21	0.09
20117121	4G2,5mm2	7.56	9.64			21	0.35	0.15
20109457	4G4mm2	4.7	5.99			28	0.56	0.25
20109459	4G6mm²	3.11	3.97			36	0.84	0.37
20109460	4G10mm²	1.84	2.35			50	1.4	0.62

Electrical values power cables

SAP code	Basic construction	Conductor resistance at 20° C [Ohm/km]	Conductor resistance at operation temperature [Ohm/km]	Inductive Reactance (at 50Hz)	Inductive Reactance (at 60Hz)	Current carrying capacity [A]	Short circuit current conductor (1sec) [kA]	Short circuit current conductor (5sec) [kA]
20113144	4G16mm2	1.16	1.48			67	2.24	1
20297781	3x25+E16mm²	0.734	0.936			89	3.5	1.56
20196759	4G25mm2	0.734	0.936			89	3.5	1.56
20109461	4G35mm²	0.529	0.675			110	4.9	2.19
20154741	4x50mm²	0.391	0.499			137	7	3.13
20109462	4G150mm²	0.126	0.161			272	21	9.39
20131218	5G2,5mm2	7.56	9.64			21	0.35	0.15
20149812	5G4mm²	4.7	5.99			28	0.56	0.25
20169924	7x1,5mm2	12.2	15.6			12	0.21	0.09
20172950	7x2,5mm2	7.56	9.64			16	0.35	0.15
20155435	12x1,5mm²	12.2	15.6			10	0.21	0.09
20204199	19x1,5mm2	12.2	15.6			8.5	0.21	0.09
20326953	24x1,5mm²	12.2	15.6			10	0.21	0.09

Current Rating IEC 61892-4 Table 4 at 45°C ambient temperature. Maximum operating conductor temperature = 90°C

Ambient temperature correction factors

Ambient temperature °C / Omgivelsestemperatur °C	35	40	45	50	55	60	65	70	75	80
Rating factor / Korreksjonsfaktor	1,10	1,05	1,00	0,94	0,88	0,82	0,74	0,67	0,58	0,47

Bending RADII & pulling recommendations

Overall diameter of cable (D) / Kabelens diameter (D)	Minimum Bending Radius During Installation / Minimum bøyeradius under installasjon	Minimum Bending Radius Fixed Installed / Minimum bøyeradius ferdig installert	Maximum Tensile Load During Installation / Maksimum trekkraft ved installasjon	Minimum Installation Temperature / Minimum installasjons temperatur
Less than or equal 25 mm / Mindre enn eller lik 25 mm	8 x D	4 x D	50 N x total cross section (mm²) of conductors / 50 N x totalt ledertverrsnitt (mm²)	- 20°C
Above 25 mm / Over 25 mm	8 x D	6 x D	50 N x total cross section (mm²) of conductors / 50 N x totalt ledertverrsnitt (mm²)	- 20°C

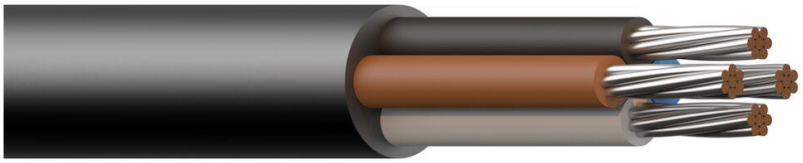
D = Cable overall diameter

Draka

RU M 0,6/1(1,2)KV P18/P111

EPR/SHF2

Flame retardant halogen-free power cable. MUD resistant.



Application

Unarmoured. Flame retardant halogen-free power cable. Fixed installation for power, control and lighting in safe areas, general purposes. RU M 1kV meets the Oil & Mud resistance requirement in NEK TS 606:2022. These cables are double-insulated and Single core cables are used as battery cables. Offshore, Oil & Gas.

Cable construction

Conductor material	Copper
Conductor surface	Tinned
Core insulation material	EPR rubber
Core identification (acc. HD 308 S2)	Yes
Material outer sheath	EVA rubber
Cable shape	Round
Max. conductor temperature [°C]	90
Max. conductor temperature at short circuit [°C]	250

Marking text on Outer Sheath (example)

"meter" "year/week" DRAKA 01 Part no. RU M 1KV P18/P111 3 x 2,5mm² IEC 60332-3-22 Production no.

Core identification power cables

Single core - Black
Two cores - Blue - Brown
Three cores - Brown - Black - Grey
Four cores - Blue - Brown - Black - Grey
Five cores - Blue - Brown - Black - Grey - Black
Seven cores and above – White cores with black numbers
Two cores + earth (3G) - Yellow/green - Blue - Brown
Three cores + earth (4G) - Yellow/green - Brown - Black - Grey
Four cores + earth (5G) - Yellow/green - Blue - Brown - Black - Grey
G / X in cable description - G = One of the cores is Yellow/Green - X = no Yellow/Green core
Core colours in acc. with HD308S2 and IEC 60445 Ed 5.0 2010-08

Standards applied

NEK TS 606:2022	Cables for offshore installations
IEC 60092-353	Design standard
IEC 60228 Class 2 or class 5	Conductors
IEC 60092-360	Insulation and sheath
IEC 60092-350	General construction and test methods for power, control and instrumentation cables for shipboard and offshore applications
IEC 61892-4 Table 4	Current rating at 45°C ambient temperature IEC 61892-4 Table 4
IEC 60332-1-2 and IEC 60332-3-22(Cat.A)	Flame retardant properties
IEC 60754-1 and IEC 60754-2	Halogen free properties: IEC 60754-1 (pH ≥ 4,3, Conductivity ≤ 10µS), IEC 60754-2 (< 0,5% Halogen)
IEC 61034-1, -2	Low smoke properties: IEC 61034-1, -2 (minimum 60% light transmittance)
Oil resistant IEC 60092-360	IRM 902 oil (168 hours @ 100°C)
MUD resistant (IEC 60092-360 & NEK TS 606)	IRM 903 oil (168 hours @ 100°C), Calcium Bromide Brine (56 days @ 70°C), EDC 95-11 base oil (56 days @ 70°C)
ISO 4892 part 3	UV and Ozone resistance

Application properties

Test voltage [kV]	8.4
Min. outer temperature, fixed installation [°C]	-52
Max. outer temperature, fixed installation [°C]	75
Low temperature resistant (acc. EN 60811-504+505+506)	Yes
Outdoor installation	Yes
Max. outer temperature during installation [°C]	50
Suitable as installation cable	Yes
Bending radius (rule)	4 x OD or 6 x OD (overall diameter), see separate table in datasheet
Certified for shipboard application	Yes

Product range

SAP code	Basic construction	Colour outer steath	Conductor category	EL no.	EAN-code (GTIN)	Semco Part Code
20196475	1x6mm²	Black	Class 2 = stranded	20196475	7021528317145	On request
20214327	1x10mm²	Black	Class 2 = stranded	20214327	7021528317138	On request
20214325	1x16mm²	Black	Class 2 = stranded	20214325	7021528317008	On request
20214326	1x70mm²	Black	Class 2 = stranded	20214326	7021528317046	On request
20317523	1x120mm²	Black	Class 2 = stranded	20317523	7021528317060	On request
20157883	1x300mm²	Black	Class 2 = stranded	20157883	7021528317107	8000087
20153849	2x1,5mm²	Black	Class 2 = stranded	20153849	7021528317152	8021343
20153852	2x2,5mm²	Black	Class 2 = stranded	20153852	7021528317336	On request
20154725	2x4mm²	Black	Class 2 = stranded	20154725	7021528317510	On request
20195578	2x6mm²	Black	Class 2 = stranded	20195578	7021528317596	On request
20172559	2x10mm²	Black	Class 2 = stranded	20172559	7021528317664	On request
20172601	2x16mm²	Black	Class 2 = stranded	20172601	7021528317725	On request
20154731	2x25mm²	Black	Class 2 = stranded	20154731	7021528317794	On request
20154733	2x35mm²	Black	Class 2 = stranded	20154733	7021528317855	On request
20115552	3x1,5mm²	Black	Class 2 = stranded	20115552	7021528317183	On request
20109463	3G1,5mm²	Black	Class 2 = stranded	20109463	7021528317169	On request
20115556	3x2,5mm²	Black	Class 2 = stranded	20115556	7021528317367	On request
20109464	3G2,5mm²	Black	Class 2 = stranded	1061434	7021528317343	8021345
20154726	3x4mm²	Black	Class 2 = stranded	20154726	7021528317534	On request
20109465	3G4mm²	Black	Class 2 = stranded	20109465	7021528317527	On request
20109466	3G6mm²	Black	Class 2 = stranded	20109466	7021528317602	On request
20195579	3x6mm²	Black	Class 2 = stranded	20195579	7021528317619	On request
20154727	3x10mm²	Black	Class 2 = stranded	20154727	7021528317671	On request
20154729	3x16mm²	Black	Class 2 = stranded	20154729	7021528317732	On request
20152382	3x25mm²	Black	Class 2 = stranded	20152382	7021528317800	On request
20154736	3x70mm²	Black	Class 2 = stranded	20154736	7021528317985	On request
20154737	3x95mm²	Black	Class 2 = stranded	20154737	7021528318050	On request
20130984	4x1,5mm²	Black	Class 2 = stranded	20130984	7021528317213	8021469
20128690	4G2,5mm²	Black	Class 2 = stranded	1061437	7021528317374	8021477
20217825	4G4mm²	Black	Class 2 = stranded	20217825	7021528317545	On request

Product range

SAP code	Basic construction	Colour outer steath	Conductor category	EL no.	EAN-code (GTIN)	Semco Part Code
20182000	4x6mm²	Black	Class 2 = stranded	20182000	7021528317626	On request
20172600	4G10mm²	Black	Class 2 = stranded	20172600	7021528317695	On request
20154728	4x10mm²	Black	Class 2 = stranded	20154728	7021528317688	On request
20109467	4G16mm²	Black	Class 2 = stranded	20109467	7021528317763	On request
20154730	4x16mm²	Black	Class 2 = stranded	20154730	7021528317749	8002338
20154732	4x25mm²	Black	Class 2 = stranded	20154732	7021528317817	On request
20172602	4G25mm²	Black	Class 2 = stranded	20172602	7021528317824	On request
20154734	4x35mm²	Black	Class 2 = stranded	20154734	7021528317879	On request
20154735	4x70mm²	Black	Class 2 = stranded	20154735	7021528317947	On request
20154738	4x95mm²	Black	Class 2 = stranded	20154738	7021528318074	On request
20154739	4x150mm²	Black	Class 2 = stranded	20154739	7021528318203	On request
20153850	5x1,5mm²	Black	Class 2 = stranded	20153850	7021528317244	8021478
20142389	5G2,5mm²	Black	Class 2 = stranded	20142389	7021528317404	8002007
20142388	5G6mm²	Black	Class 2 = stranded	20142388	7021528317633	On request
20221404	5G70mm²	Black	Class 2 = stranded	20221404	7021528317992	On request
20153851	7x1,5mm²	Black	Class 2 = stranded	20153851	7021528317251	On request
20155413	7x2,5mm²	Black	Class 2 = stranded	20155413	7021528317435	On request

Dimensional data

SAP code	Basic construction	Diameter conductor [mm]	Nominal thickness insulation [mm]	Nominal diameter over insulation [mm]	Nominal thickness outer sheath [mm]	Nominal outer diameter [mm]	Tolerance diameter outer sheath [±mm]	Cable weight [kg/km]	Copper weight [kg/km]
20196475	1x6mm²	3.1	1	5	1	7	0.5	115	54.5
20214327	1x10mm²	4	1	5.9	1	8	0.5	160	88
20214325	1x16mm²	5.05	1	7	1.1	9	0.5	230	140
20214326	1x70mm²	10.6	1.4	13.3	1.3	16	0.8	815	612
20317523	1x120mm²	14	1.6	17.1	1.4	20	1	1,345	1,067
20157883	1x300mm²	22.25	2.4	26.8	1.8	30.5	1.5	3,240	2,661
20153849	2x1,5mm²	1.6	1	3.5	1.1	9	0.5	135	27
20153852	2x2,5mm²	2	1	3.9	1.1	10	0.8	170	43
20154725	2x4mm²	2.5	1	4.1	1.1	11	0.8	220	70
20195578	2x6mm²	3.1	1	5	1.2	12.5	0.8	295	109
20172559	2x10mm²	4	1	5.9	1.2	14	0.8	415	176
20172601	2x16mm²	5.05	1	7	1.3	16.5	0.8	590	281
20154731	2x25mm²	6.3	1.2	8.7	1.4	20	1	880	444
20154733	2x35mm²	7.4	1.2	9.8	1.5	22.5	1	1,150	610
20115552	3x1,5mm²	1.6	1	3.5	1.1	9.5	0.5	158	41
20109463	3G1,5mm²	1.6	1	3.5	1.1	9.5	0.5	158	41
20115556	3x2,5mm²	2	1	3.9	1.1	10.5	0.8	202	65
20109464	3G2,5mm²	2	1	3.9	1.1	10.5	0.8	202	65
20154726	3x4mm²	2.5	1	4.1	1.2	12	0.8	275	104
20109465	3G4mm²	2.5	1	4.1	1.2	12	0.8	275	104
20109466	3G6mm²	3.1	1	5	1.2	13	0.8	365	163
20195579	3x6mm²	3.1	1	5	1.2	13	0.8	365	163
20154727	3x10mm²	4	1	5.9	1.3	15	0.8	525	264
20154729	3x16mm²	5.05	1	7	1.4	17.5	0.8	755	421
20152382	3x25mm²	6.3	1.2	8.7	1.5	21.5	1	1,130	666
20154736	3x70mm²	10.6	1.4	13.3	1.9	33	1.5	2,820	1,840
20154737	3x95mm²	12.4	1.6	15.5	2	37.5	1.5	3,745	2,481
20130984	4x1,5mm²	1.6	1	3.5	1.1	10.5	0.8	190	54
20128690	4G2,5mm²	2	1	3.9	1.2	11.5	0.8	250	86

Dimensional data

SAP code	Basic construction	Diameter conductor [mm]	Nominal thickness insulation [mm]	Nominal diameter over insulation [mm]	Nominal thickness outer sheath [mm]	Nominal outer diameter [mm]	Tolerance diameter outer sheath [±mm]	Cable weight [kg/km]	Copper weight [kg/km]
20217825	4G4mm²	2.5	1	4.1	1.2	13	0.8	335	139
20182000	4x6mm²	3.1	1	5	1.3	14.5	0.8	455	217
20172600	4G10mm²	4	1	5.9	1.3	17	0.8	650	352
20154728	4x10mm²	4	1	5.9	1.3	17	0.8	650	352
20109467	4G16mm²	5.05	1	7	1.4	19.5	0.8	950	562
20154730	4x16mm²	5.05	1	7	1.4	19.5	0.8	950	562
20154732	4x25mm²	6.3	1.2	8.7	1.6	24	1	1,455	887
20172602	4G25mm²	6.3	1.2	8.7	1.6	24	1	1,455	887
20154734	4x35mm²	7.4	1.2	9.8	1.7	27	1	1,885	1,219
20154735	4x70mm²	10.6	1.4	13.3	2	36.5	1.5	3,590	2,453
20154738	4x95mm²	12.4	1.6	15.5	2.2	42	2	4,790	3,309
20154739	4x150mm²	15.45	1.8	19	2.5	51	2.5	7,340	5,178
20153850	5x1,5mm²	1.6	1	3.5	1.2	12	0.8	245	67
20142389	5G2,5mm²	2	1	3.9	1.2	13	0.8	310	107
20142388	5G6mm²	3.1	1	5	1.3	16.5	0.8	555	272
20221404	5G70mm²	10.6	1.4	13.3	2.1	40.5	2	4,420	3,067
20153851	7x1,5mm²	1.6	1	3.5	1.2	12.5	0.8	285	94
20155413	7x2,5mm²	2	1	3.9	1.3	14	0.8	380	151

Electrical values power cables

SAP code	Basic construction	Conductor resistance at 20° C [Ohm/km]	Conductor resistance at operation temperature [Ohm/km]	Inductive Reactance (at 50Hz)	Inductive Reactance (at 60Hz)	Current carrying capacity [A]	Short circuit current conductor (1sec) [kA]	Short circuit current conductor (5sec) [kA]
20196475	1x6mm²	3.11	3.97			52	0.84	0.38
20214327	1x10mm²	1.84	2.35			72	1.4	0.63
20214325	1x16mm²	1.16	1.48			96	2.24	1
20214326	1x70mm²	0.27	0.344			242	9.8	4.38
20317523	1x120mm²	0.154	0.196			339	16.8	7.51
20157883	1x300mm²	0.0607	0.0774			601	42	18.7
20153849	2x1,5mm²	12.2	15.6			20	0.21	0.09
20153852	2x2,5mm²	7.56	9.64			26	0.35	0.16
20154725	2x4mm²	4.7	5.99			34	0.56	0.25
20195578	2x6mm²	3.11	3.97			44	0.84	0.38
20172559	2x10mm²	1.84	2.35			61	1.4	0.63
20172601	2x16mm²	1.16	1.48			82	2.24	1
20154731	2x25mm²	0.734	0.936			108	3.5	1.57
20154733	2x35mm²	0.529	0.675			133	4.9	2.19
20115552	3x1,5mm²	12.2	15.6			16	0.21	0.09
20109463	3G1,5mm²	12.2	15.6			20	0.21	0.09
20115556	3x2,5mm²	7.56	9.64			21	0.35	0.16
20109464	3G2,5mm²	7.56	9.64			26	0.35	0.16
20154726	3x4mm²	4.7	5.99			28	0.56	0.25
20109465	3G4mm²	4.7	5.99			34	0.56	0.25
20109466	3G6mm²	3.11	3.97			44	0.84	0.38
20195579	3x6mm²	3.11	3.97			36	0.84	0.38
20154727	3x10mm²	1.84	2.35			50	1.4	0.63
20154729	3x16mm²	1.16	1.48			67	2.24	1
20152382	3x25mm²	0.734	0.936			89	3.5	1.57
20154736	3x70mm²	0.27	0.344			169	9.8	4.38
20154737	3x95mm²	0.195	0.249			205	13.3	5.95
20130984	4x1,5mm²	12.2	15.6			16	0.21	0.09
20128690	4G2,5mm²	7.56	9.64			21	0.35	0.16
20217825	4G4mm²	4.7	5.99			28	0.56	0.25

Electrical values power cables

SAP code	Basic construction	Conductor resistance at 20° C [Ohm/km]	Conductor resistance at operation temperature [Ohm/km]	Inductive Reactance (at 50Hz)	Inductive Reactance (at 60Hz)	Current carrying capacity [A]	Short circuit current conductor (1sec) [kA]	Short circuit current conductor (5sec) [kA]
20182000	4x6mm²	3.11	3.97			36	0.84	0.38
20172600	4G10mm²	1.84	2.35			50	1.4	0.63
20154728	4x10mm²	1.84	2.35			50	1.4	0.63
20109467	4G16mm²	1.16	1.48			67	2.24	1
20154730	4x16mm²	1.16	1.48			67	2.24	1
20154732	4x25mm²	0.734	0.936			89	3.5	1.57
20172602	4G25mm²	0.734	0.936			89	3.5	1.57
20154734	4x35mm²	0.529	0.675			110	4.9	2.19
20154735	4x70mm²	0.27	0.344			169	9.8	4.38
20154738	4x95mm²	0.195	0.249			205	13.3	5.95
20154739	4x150mm²	0.126	0.161			273	21	9.39
20153850	5x1,5mm²	12.2	15.6			13	0.21	0.09
20142389	5G2,5mm²	7.56	9.64			21	0.35	0.16
20142388	5G6mm²	3.11	3.97			36	0.84	0.38
20221404	5G70mm²	0.27	0.344			169	9.8	4.38
20153851	7x1,5mm²	12.2	15.6			12	0.21	0.09
20155413	7x2,5mm²	7.56	9.64			15.5	0.35	0.16

Current Rating IEC 61892-4 Table 4 at 45°C ambient temperature. Maximum operating conductor temperature = 90°C

Ambient temperature correction factors

Ambient temperature °C / Omgivelsestemperatur °C	35	40	45	50	55	60	65	70	75	80
Rating factor / Korreksjonsfaktor	1,10	1,05	1,00	0,94	0,88	0,82	0,74	0,67	0,58	0,47

Bending RADII & pulling recommendations

Overall diameter of cable (D) / Kabelens diameter (D)	Minimum Bending Radius During Installation / Minimum bøyeradius under installasjon	Minimum Bending Radius Fixed Installed / Minimum bøyeradius ferdig installert	Maximum Tensile Load During Installation / Maksimum trekkraft ved installasjon	Minimum Installation Temperature / Minimum installasjons temperatur
Less than or equal 25 mm / Mindre enn eller lik 25 mm	8 x D	4 x D	50 N x total cross section (mm²) of conductors / 50 N x totalt ledertverrsnitt (mm²)	- 20°C
Above 25 mm / Over 25 mm	8 x D	6 x D	50 N x total cross section (mm²) of conductors / 50 N x totalt ledertverrsnitt (mm²)	- 20°C

D = Cable overall diameter

Draka

Earth Conductors UX M 1000V - P15/P108

Flame retardant conductors. MUD resistant.

Application

Flame retardant conductors. Insulated conductor for earthing and bonding services. UX M 1000V meets the Oil & Mud resistance requirement in NEK TS 606:2022.
HF90 / SHF2 to IEC 60092-360 is a flame retardant halogen-free thermoset EVA rubber.

Marine; Offshore; Oil & Gas

Cable construction

Conductor material	Copper
Conductor surface	Tinned
Core insulation material	EVA rubber
Cable shape	Round
Max. conductor temperature [°C]	90

Marking text on Outer Sheath (example)

”meter” ”year/week” DRAKA 01 Part no. UX M 1000V P15/P108 1x 95 mm² IEC 332-3-22 Production no.

Standards applied

NEK TS 606:2022	Cables for offshore installations
IEC 60092-353	Design standard
IEC 60228 Class 2 or class 5	Conductors
IEC 60092-350	General construction and test methods for power, control and instrumentation cables for shipboard and offshore applications
IEC 60332-1-2 and IEC 60332-3-22(Cat.A)	Flame retardant properties
IEC 60754-1 and IEC 60754-2	Halogen free properties: IEC 60754-1 (pH ≥ 4,3, Conductivity ≤ 10µS), IEC 60754-2 (< 0,5% Halogen)
IEC 61034-1, -2	Low smoke properties: IEC 61034-1, -2 (minimum 60% light transmittance)
Oil resistant IEC 60092-360	IRM 902 oil (168 hours @ 100°C)
MUD resistant (IEC 60092-360 & NEK TS 606)	IRM 903 oil (168 hours @ 100°C), Calcium Bromide Brine (56 days @ 70°C), EDC 95-11 base oil (56 days @ 70°C)
ISO 4892 part 3	UV and Ozone resistance

Application properties

Test voltage [kV]	8.4
Min. outer temperature, fixed installation [°C]	-52
Max. outer temperature, fixed installation [°C]	75
Low temperature resistant (acc. EN 60811-504+505+506)	Yes
Outdoor installation	Yes
Min. outer temperature during installation [°C]	-20
Max. outer temperature during installation [°C]	50
Underground installation	Yes
Bending radius (rule)	6 x OD (cable overall diameter)
Certified for shipboard application	Yes

Product range

SAP code	Basic construction	Colour outer steath	Conductor category	EL no.	EAN-code (GTIN)	Semco Part Code
20109530	1x6mm2	Green/yellow	Class 2 = stranded	1045541	7021528008005	8000111
20109531	1x10mm2	Green/yellow	Class 2 = stranded	1045542	7021528008012	8000056
20109532	1x16mm2	Green/yellow	Class 2 = stranded	1045543	7021528008029	8000062
20109533	1x25mm2	Green/yellow	Class 2 = stranded	1045553	7021528008036	8000068
20109534	1x35mm2	Green/yellow	Class 2 = stranded	1045563	7021528008043	8000090
20236384	1x35mm2 Cl5	Green/yellow	Class 5 = flexible	20236384	7021528009040	On request
20109535	1x50mm2	Green/yellow	Class 2 = stranded	1045573	7021528008050	8000110
20109536	1x70mm2	Green/yellow	Class 2 = stranded	1045583	7021528008067	8000115
20109537	1x95mm2	Green/yellow	Class 2 = stranded	1045593	7021528008074	8000117
20172920	1x95mm2 Cl5	Green/yellow	Class 5 = flexible	20172920	7021528009071	On request
20121097	1x120mm2	Green/yellow	Class 2 = stranded	1045603	7021528008081	8060246
20109538	1x150mm2	Green/yellow	Class 2 = stranded	1045604	7021528008098	8000060
20139738	1x185mm2	Green/yellow	Class 2 = stranded	20139738	7021528008104	8003747
20139739	1x240mm2	Green/yellow	Class 2 = stranded	20139739	7021528008111	8041438
20204198	1x300mm2	Green/yellow	Class 2 = stranded	20204198	7021528008128	On request

Dimensional data

SAP code	Basic construction	Diameter conductor [mm]	Nominal thickness insulation [mm]	Nominal diameter over insulation [mm]	Cable weight [kg/km]	Copper weight [kg/km]
20109530	1x6mm2	3.1	1	5.1	80	54
20109531	1x10mm2	4	1	6	120	87
20109532	1x16mm2	5.05	1	7.1	175	140
20109533	1x25mm2	6.3	1.2	8.8	275	220
20109534	1x35mm2	7.4	1.2	10	370	302
20236384	1x35mm2 Cl5	8.45	1.2	11	380	306
20109535	1x50mm2	8.75	1.4	12	500	411
20109536	1x70mm2	10.6	1.4	13.5	715	608
20109537	1x95mm2	12.35	1.6	16	955	820
20172920	1x95mm2 Cl5	13.25	1.6	16.5	910	767
20121097	1x120mm2	14	1.6	17.5	1,215	1,060
20109538	1x150mm2	15.4	1.8	19.5	1,475	1,284
20139738	1x185mm2	17.3	2	21.5	1,830	1,596
20139739	1x240mm2	19.85	2.2	24.5	2,400	2,105
20204198	1x300mm2	22.25	2.4	27.5	3,000	2,644

Electrical values power cables

SAP code	Basic construction	Conductor resistance at 20° C [Ohm/km]	Conductor resistance at operation temperature [Ohm/km]	Inductive Reactance (at 50Hz)	Inductive Reactance (at 60Hz)	Current carrying capacity [A]	Short circuit current conductor (1sec) [kA]	Short circuit current conductor (5sec) [kA]
20109530	1x6mm2	3.11	3.97			52	0.84	0.37
20109531	1x10mm2	1.84	2.35			72	1.4	0.62
20109532	1x16mm2	1.16	1.48			96	2.24	1
20109533	1x25mm2	0.734	0.936			127	3.5	1.56
20109534	1x35mm2	0.529	0.675			157	4.9	2.19
20236384	1x35mm2 Cl5	0.565	0.7204			157	4.9	2.19
20109535	1x50mm2	0.391	0.499			196	7	3.13
20109536	1x70mm2	0.27	0.344			242	9.8	4.38
20109537	1x95mm2	0.195	0.249			293	13.3	5.94
20172920	1x95mm2 Cl5	0.21	0.2677			293	13.3	5.94
20121097	1x120mm2	0.154	0.196			339	16.8	7.51
20109538	1x150mm2	0.126	0.161			389	21	9.39
20139738	1x185mm2	0.1	0.128			11.5	25.9	11.58
20139739	1x240mm2	0.0762	0.0972			522	33.6	15
20204198	1x300mm2	0.0607	0.0774			601	42	18.7

Current Rating IEC 61892-4 Table 4 at 45°C ambient temperature. Maximum operating conductor temperature = 90°C

Ambient temperature correction factors

Ambient temperature °C / Omgivelsestemperatur °C	35	40	45	50	55	60	65	70	75	80
Rating factor / Korreksjonsfaktor	1,10	1,05	1,00	0,94	0,88	0,82	0,74	0,67	0,58	0,47

Bending RADII & pulling recommendations

Minimum Bending Radius During Installation / Minimum bøyeradius under installasjon	Minimum Bending Radius Fixed Installed / Minimum bøyeradius ferdig installert	Maximum Tensile Load During Installation / Maksimum trekkraft ved installasjon	Minimum Installation Temperature / Minimum installasjons temperatur
8 x D	6 x D	50 N x total cross section (mm²) of conductors / 50 N x totalt ledertverrsnitt (mm²)	- 20°C

D = Cable overall diameter

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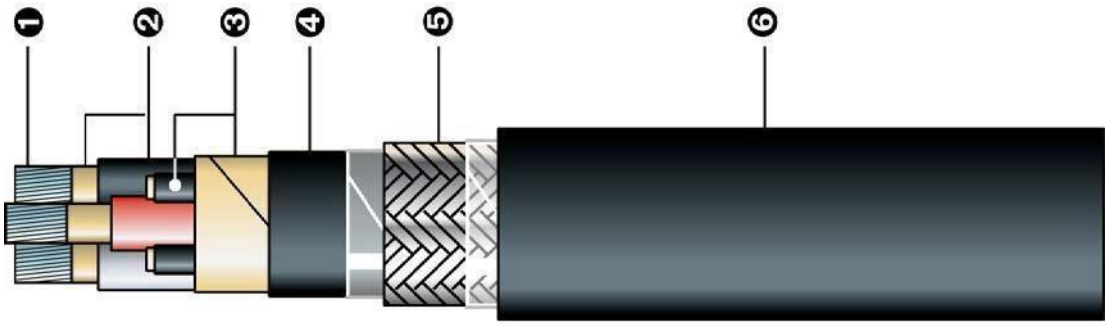
BFOU H-M P105

Power & control 0,6/1 kV



Halogen free - flame retardant

Mineral - hydraulic oils & MUDs resistant Fire resistant

Armoured

Operating temperature over 100 °C

Construction

Conductor	1	Tinned annealed copper flexible Class 2 or Class 5 IEC 60228	
Insulation	2	mica tape + EPR HF compound IEC 60092-360	
Bedding & Fillers	3	FLAMEBAR® fiberglass tape(s) (*) + fiberglass ropes, EPR sheathed (when sect. ≥ 16 mm²)	
Inner Sheath	4	HF extruded compound	
Armour	5	Tinned copper wire braid	
Outer Sheath	6	SHF2 H-M compound NEK 606:2016 separator PE tapes **(*)** where necessary **(*)** tape overlapping ≥ 50 %	
Core identification		1 core	Off-white
		2 cores	Off-white, Black
		3 cores	Off-white, Black, Red
		4 cores	Off-white, Black, Red, Blue
		5 cores and above	White & Numbered
Sheath color		Black	
Minimal sheath marking		CCI P105 BFOU H-M 0,6/1 kV n x sect mm² IEC 60092-353 NEK 606 IEC 60332-3-22 Cat A IEC 60331-1 or 2 meter marking year QA n°	
Minimum bending radius		4D	

Design and construction		IEC 60092-353 NEK 606:2016
Nominal voltage Uo / U		0,6/1 kV
Maximun voltage Umax		1,2 kV
Maximum conductor temperature		90 °C according to IEC 60092-360
Flame retardancy		IEC 60332-1-2 IEC 60332-3-22 Cat A
Fire resistance		IEC 60331-1 or 2 (120 minutes)
Halogen content & corrosivity		IEC 60754-1 &2 IEC 60684-2
Smoke density		IEC 61034-1 & 2
UV resistance		UL 1581 § 1200
Ozone resistance		IEC 60092-360
Mineral - hydraulic oils & MUDs resist.		NEK 606:2016
on request:		
Cold Bend and Impact test (- 40° C)		CSA C 22.2 N° 0.3-01 & N° 38-05

Construction, n x mm²	Conductor Diameter Nominal mm	Insulation Thickness Nominal mm	Diameter Under Armour nominal mm	Overall Diameter Approx mm	Weight Approx Kg/km	Ordering information
1 x 16	5,2	1,0	11,0	15	450	**8091412**
1 x 25	6,5	1,2	12,7	17	610	**8091413**
1 x 35	7,5	1,2	13,7	19	740	**8091414**
1 x 50	8,3	1,4	14,8	20	900	**8091415**
1 x 70	10,0	1,4	16,5	22	1.150	**8091416**
1 x 95	11,8	1,6	18,7	25	1.500	**8091417**
1 x 120	13,2	1,6	20,1	26	1.770	**8091418**
1 x 150	14,6	1,8	21,9	28	2.120	**8091419**
1 x 185	16,5	2,0	24,2	31	2.610	**8091420**
1 x 240	19,0	2,2	27,5	34	3.310	**8091422**
1 x 300	21,8	2,4	30,7	38	4.030	**8091423**
2 x 1,5	1,6	1,0	10,3	15	360	**8091424**
2 x 2,5	2,0	1,0	11,3	16	420	**8091426**
2 x 4	2,8	1,0	13,1	18	510	**8091430**
2 x 6	3,3	1,0	14.3	19	620	**8091438**
2 x 10	4,1	1,0	16,5	22	810	**8091440**
2 x 16	5,2	1,0	18,9	25	1.070	**8091442**
3 x 1,5	1,6	1,0	10,9	16	400	**8091444**
3 x 2,5	2,0	1,0	12,0	17	470	**8091446**
3 x 4	2,8	1,0	14,0	19	560	**8091448**
3 x 6	3,3	1,0	15,3	21	700	**8091450**
3 x 10	4,1	1,0	17,6	23	910	**8091452**
3 x 16	5,2	1,0	20,2	26	1.230	**8091454**
3 x 25	6,5	1,2	24,1	30	1.680	**8091456**
3 x 35	7,5	1,2	26,1	33	2.110	**8091458**
3 x 50	8,3	1,4	28,7	36	2.640	**8091460**
3 x 70	10,0	1,4	32,4	40	3.540	**8091462**
3 x 95	11,8	1,6	37,1	45	4.720	**8091464**
3 x 120	13,2	1,6	40,6	49	5.690	**8091466**
3 x 150	14,6	1,8	44,9	54	6.830	**8091468**
3 x 185	16,5	2,0	49,8	59	8.440	**8091470**

Construction, n x mm²	Conductor Diameter Nominal mm	Insulation Thickness Nominal mm	Diameter Under Armour Nominal mm	Overall Diameter Approx mm	Weight Approx Kg/km	Ordering information
3 x 240	19,0	2,2	56,5	66	10.760	**8091472**
3 x 300	21,8	2,4	63,4	74	12.960	**8091474**
3G x 1,5	1,6	1,0	10,9	16	400	**8091425**
3G x 2,5	2,0	1,0	12,0	17	470	**8091428**
3G x 4	2,8	1,0	14,0	19	560	**8091431**
3G x 6	3,3	1,0	15,3	21	700	**8091439**
3G x 10	4,1	1,0	17,6	23	910	**8091441**
3G x 16	5,2	1,0	20,2	26	1.230	**8091443**
4 x 1,5	1,6	1,0	11,9	17	440	**8091476**
4 x 2,5	2,0	1,0	13,1	18	520	**8091478**
4 x 4	2,8	1,0	15,3	21	670	**8091480**
4 x 6	3,3	1,0	16,8	22	830	**8091482**
4 x 10	4,1	1,0	19,3	25	1.090	**8091484**
4 x 16	5,2	1,0	22,2	28	1.510	**8091486**
4 x 25	6,5	1,2	26,5	33	2.070	**8091488**
4 x 35	7,5	1,2	28,8	35	2.610	**8091490**
4 x 50	8,3	1,4	31,6	39	3.380	**8091492**
4 x 70	10,0	1,4	35,7	44	4.430	**8091494**
4 x 95	11,8	1,6	41	49	5.940	**8091496**
4 x 120	13,2	1,6	44.8	54	7.150	**8091498**
4 x 150	14,6	1,8	49,5	59	8.780	on request
4 x 185	16,5	2,0	55,5	65	11.050	on request
4 x 240	19,0	2,2	62,5	73	14.050	on request
4 x 300	21,8	2,4	70,2	80	16.780	on request
4G x 1,5	1,6	1,0	11,9	17	440	**8091445**
4G x 2,5	2,0	1,0	13,1	18	520	**8091447**
4G x 4	2,8	1,0	15,3	21	670	**8091449**
4G x 6	3,3	1,0	16,8	22	830	**8091451**
4G x 10	4,1	1,0	19,3	25	1.090	**8091453**
4G x 16	5,2	1,0	22,2	28	1.510	**8091455**
4G x 25	6,5	1,2	26,5	33	2.070	**8091457**
4G x 35	7,5	1,2	28,8	35	2.610	**8091459**
4G x 50	8,3	1,4	31,6	39	3.380	**8091461**
4G x 70	10,0	1,4	35,7	44	4.430	**8091463**
4G x 95	11,8	1,6	41	49	5.940	**8091465**
4G x 120	13,2	1,6	44.8	54	7.150	**8091467**
4G x 150	14,6	1,8	49,5	59	8.780	**8091469**
4G x 185	16,5	2,0	55,5	65	11.050	**8091471**
4G x 240	19,0	2,2	62,5	73	14.050	**8091473**
4G x 300	21,8	2,4	70,2	80	16.780	**8091475**
5 x 1,5	1,6	1,0	13.3	18	540	**8091500**
7 x 1,5	1,6	1,0	14.5	20	630	**8091502**
12 x 1,5	1,6	1,0	19.1	25	990	**8091504**
19 x 1,5	1,6	1,0	22.6	29	1.330	**8091508**
27 x 1,5	1,6	1,0	27.4	34	1.870	**8091506**
37 x 1,5	1,6	1,0	31	38	2.450	**8091510**

Construction, n x mm²	Conductor Diameter Nominal mm	Insulation Thickness Nominal mm	Diameter Under Armour Nominal mm	Overall Diameter Approx mm	Weight Approx Kg/km	Ordering information
5G x 1,5	1,6	1,0	13,3	18	540	**8091477**
5 x 2,5	2,0	1,0	14,4	19	640	**8091512**
7 x 2,5	2,0	1,0	15,7	21	740	**8091514**
12 x 2,5	2,0	1,0	20,9	27	1.190	**8091516**
19 x 2,5	2,0	1,0	24,8	31	1650	**8091518**
27 x 2,5	2,0	1,0	28,8	36	2320	on request
37 x 2,2	2,0	1,0	34	41	3030	**8091520**
5G x 2,5	2,0	1,0	14,4	19	640	**8091479**
5G x 4						**8091481**
5G x 6						**8091483**
5G x 10						**8091485**
5G x 16						**8091487**
5G x 25						**8091489**
5G x 35						**8091491**

RFOU P101 SemGreen

0.6/1 KV Armoured Class 5

Operating temperature: **-15/90°C**
Operating Voltage: **0.6/1 kV**

Halogen-free, fire-resistant, flame retardant and MUD-resistant cable. Semco Maritime supplies a complete range of power control cables for use on board all types of civil and military vessels. Can be installed and operated both indoors and outdoors. With green outer sheath.

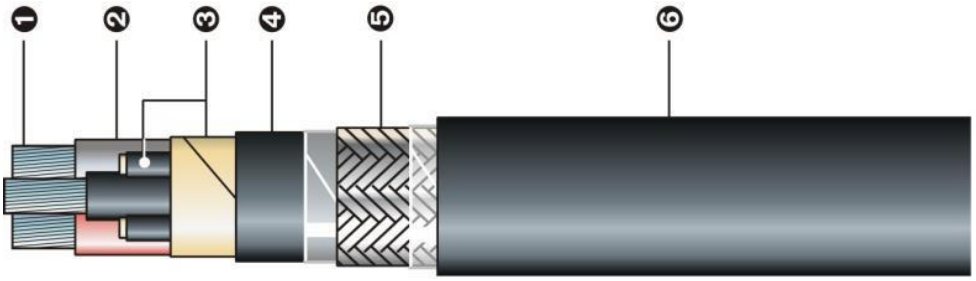
Standards applied

IEC 60092-353	- Design
IEC 60228 class 5	- Conductor
IEC 60092-360	- Insulation
IEC 60092-360	- Sheath
IEC 60332-1-2	- Flame Retardant
IEC 60332-3-22	- Flame Retardant
IEC 60754-1,2	- Halogen Free

Size	Thickness inner covering mm	Diameter inner covering mm	Thickness outer Sheath mm	Diameter outer Sheath mm	Weight of cable Approx (kg/km)	Ordering info
3G x 2.5	1.1	10.8	1.3	14.7	380	**8091646**
5G x 2.5	1.1	13	1.4	17.1	510	**8095883**
5G x 6	1.1	15.9	1.5	20.1	810	**8100768**
5G x 10	1.2	18.4	1.5	22.9	1110	**8004252**
5G x 16	1.2	21.1	1.6	25.8	1470	**8091648**

RFOU H-M P101

Power & control 0,6/1 kV



Halogen free - flame retardant

Mineral - hydraulic oils & MUDs resistant armoured

Operating temperature - over 100 °C

Construction

Conductor	1	Tinned annealed copper flexible Class 2 or Class 5 IEC 60228	
Insulation	2	EPR HF compund IEC 60092-360	
Bedding & Fillers	3	FLAMEBAR® fiberglass tape(s) (*) + fiberglass ropes, EPR sheathed (when sect. ≥ 16 mm²)	
Inner Sheath	4	HF extruded compound	
Armour	5	Tinned copper wire braid	
Outer Sheath	6	SHF2 H-M compound NEK 606:2016 separator PE tapes **(*)** where necessary **(*)** tape overlapping ≥ 50 %	
Core identification		1 core	Off-white
		2 cores	Off-white, Black
		3 cores	Off-white, Black, Red
		4 cores	Off-white, Black, Red, Blue
		5 cores and above	White & Numbered
Sheath color		Black	
Minimal sheath marking		CCI P101 RFOU H-M 0,6/1 kV n x sect mm² IEC 60092-353 NEK 606 IEC 60332-3-22 Cat A meter marking year QA n°	
Minimum bending radius		4D	

Construction, n x mm²	Conductor Diameter Nominal mm	Insulation Thickness Nominal mm	Diameter Under Armour nominal mm	Overall Diameter Approx mm	Weight Approx Kg/km	Ordering information
1 x 16	5,2	1,0	10,9	15	480	on request
1 x 25	6,5	1,2	12,6	17	620	on request
1 x 35	7,5	1,2	13,6	18	745	on request
1 x 50	8,3	1,4	14,7	19	900	on request
1 x 70	10,0	1,4	16,4	21	1145	on request
1 x 95	11,8	1,6	18,6	24	1500	on request
1 x 120	13,2	1,6	20,4	26	1800	on request
1 x 150	14,6	1,8	22,2	28	2150	on request
1 x 185	16,5	2,0	24,5	30	2630	on request
1 x 240	19,0	2,2	27,8	34	3320	on request
1 x 300	21,8	2,4	31	38	4030	on request
2 x 1,5	1,6	1,0	9.5	14	290	on request
2 x 2,5	2,0	1,0	10.5	15	350	on request
2 x 4	2,8	1,0	12.1	17	470	on request
2 x 6	3,3	1,0	13.1	18	560	on request
2 x 10	4,1	1,0	15.3	21	770	on request
2 x 16	1,6	1,0	9.5	14	290	on request
3 x 1,5	1,6	1,0	9,8	14	320	on request
3 x 2,5	2,0	1,0	10,6	16	380	on request
3 x 4	2,8	1,0	12,4	18	560	on request
3 x 6	3,3	1,0	13,4	19	640	on request
3 x 10	4,1	1,0	15,2	22	890	on request
3 x 16	5,2	1,0	17,6	25	1.190	on request
3 x 25	6,5	1,2	21,2	29	1.610	on request
3 x 35	7,5	1,2	23,4	32	2.100	on request
3 x 50	8,3	1,4	26,0	35	2.720	on request
3 x 70	10,0	1,4	30,0	39	3.550	on request
3 x 95	11,8	1,6	34,8	45	4.700	on request
3 x 120	13,2	1,6	37,8	49	5.650	on request
3 x 150	14,6	1,8	42,1	53	6.970	on request
3 x 185	16,5	2,0	48,6	58	8.430	on request
3 x 240	19,0	2,2	53,3	66	10.790	on request
3 x 300	21,8	2,4	60,3	77	13.370	on request
3G x 6	3,3	1,0	13,4	19	640	**8091642**
4 x 1,5	1,6	1,0	11	15	390	on request
4 x 2,5	2,0	1,0	12,2	16	470	on request
4 x 4	2,8	1,0	14,5	19	680	on request
4 x 6	3,3	1,0	15,9	22	850	on request
4 x 10	4,1	1,0	18,5	24	1.100	on request
4 x 16	5,2	1,0	21,5	27	1.500	on request
4 x 25	6,5	1,2	25,3	33	2.110	on request
4 x 35	7,5	1,2	27,8	35	2.640	on request
4 x 50	8,3	1,4	31	38	3.440	on request
4 x 70	10,0	1,4	35,5	43	4.510	on request
4 x 95	11,8	1,6	41,2	49	5.950	on request
4 x 120	13,2	1,6	45	54	7.270	on request
4 x 150	14,6	1,8	48,2	57	8.550	on request

Construction, n x mm²	Conductor Diameter Nominal mm	Insulation Thickness Nominal mm	Diameter Under Armour nominal mm	Overall Diameter Approx mm	Weight Approx Kg/km	Ordering information
4 x 185	16,5	2,0	54,2	64	10.775	on request
4 x 240	19,0	2,2	61	71	13.760	on request
4 x 300	16,5	2,0	54,2	64	10.775	on request
5 x 1,5	1,6	1,0	16,2	16	480	on request
7 x 1,5	1,6	1,0	16,3	19	550	on request
12 x 1,5	1,6	1,0	23,6	24	860	on request
19 x 1,5	1,6	1,0	29,2	28	1.550	on request
37 x 1,5	1,6	1,0	28,1	35	2.040	on request
5 x 2,5	2,0	1,0	13,3	18	570	on request
7 x 2,5	2,0	1,0	14,5	20	660	on request
12 x 2,5	2,0	1,0	19,2	25	1.050	on request
19 x 2,5	2,0	1,0	22,8	29	1.450	on request
37 x 2,5	2,0	1,0	43,2	39	2.670	on request

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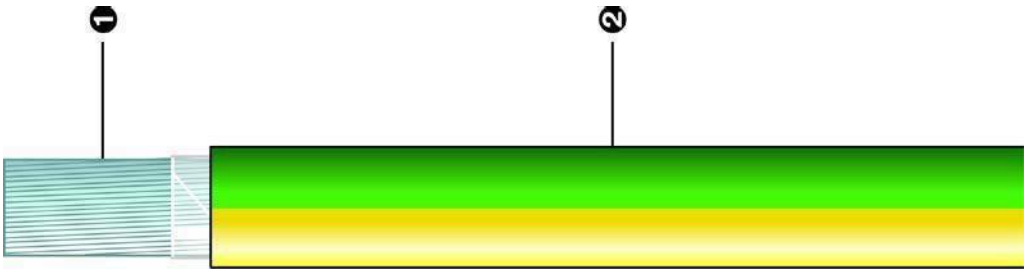
UX H-M P108

Earth 0,6/1 kV



Halogen free - flame retardant

Mineral - hydraulic oils & MUDs resistant

Operating temperature over 100 °C

Construction

Conductor	1	Tinned annealed copper flexible Class 2 or Class 5 IEC 60228
Outer Sheath	2	SHF2 H-M compound NEK 606:2016 separator PE tapes **(*)** where necessary **(*)** tape overlapping ≥ 50 %
Minimal sheath marking		CCI P108 UX H-M 0,6/1 kV sect mm² IEC 60092-353 NEK 606 IEC 60332-3-22 Cat A meter marking year QA n°
Minimum bending radius		4D
Design and construction		IEC 60092-353 NEK 606:2016
Nominal voltage Uo / U		0,6/1 kV
Maximun voltage Umax		1,2 kV
Maximum conductor temperature		90 °C according to IEC 60092-360
Flame retardancy		IEC 60332-1-2 IEC 60332-3-22 Cat A
Halogen content & corrosivity		IEC 60754-1 & 2 IEC 60684-2
Smoke density		UL 1581 § 1200
Ozone resistance		IEC 60092-360
Mineral - hydraulic oils & MUDs resist.		NEK 606:2016
on request:		
Cold Bend and Impact test (- 40° C)		CSA C 22.2 N° 0.3-01 & N° 38-05

Construction, n x mm²	Conductor Diameter, mm	Sheath Thickness, mm	Overall Diameter, mm	Weight Approx Kg/km	Ordering information
1 x 6	3,3	1,0	5,3	114	**8091641**
1 x 10	4,1	1,0	6,1	154	**8091336**
1 x 16	5,2	1,0	7	220	**8091337**
1 x 25	6,5	1,2	9	300	on request
1 x 35	7,5	1,2	10	390	on request
1 x 50	8,3	1,4	11	490	on request
1 x 70	10,0	1,4	13	670	on request
1 x 95	11,8	1,6	15	920	on request
1 x 120	13,2	1,6	16	1.170	on request
1 x 150	14,6	1,8	18	1.445	on request
1 x 185	16,5	2,0	20	1.930	on request
1 x 240	19,0	2,2	23	2.425	on request
1 x 300	21,8	2,4	31	3.000	on request