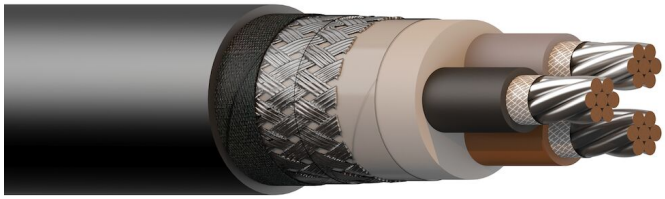
BFOU M 1KV P5/P12/P105

Fire resistant halogenfree power cable. MUD resistant



GENERAL INFO

BFOU M 1KV P5/P12/P105
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.

MGT/EPR/EPR/TCWB/SHF2
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 P5/P12/P105 3 x 25/16 mm2 FLEX - FLAME 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 colours:
1X = Black, 2X = Blue - Brown, 3X = Brown - Black - Grey, 4X = Blue - Brown - Black - Grey, 5X = Blue - Brown - Black - Grey - Black, 7 - 37X = White cores with Black numbers, 3G Yellow/Green - Blue - Brown, 4G = Yellow/Green - Brown - Black - Grey, 5G = Yellow/Green - Blue - Brown - Black - Grey
G = one core 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 / ORDER DATA

SAP code	Basic construction	Nominal electrical copper cross section armouring [mm²]	Colour outer sheath	Conductor category	EL no.	EAN-code (GTIN)	Commodity code
20120052	1x16/4mm²	4	Black	Class 2 = stranded	1043605	7021528002003	85444941
20110496	1x25/4mm²	4	Black	Class 2 = stranded	20110496	7021528002010	85444941
20497572	1x25/6mm²	6	Black		20497572	7021523000097	85444941
20167406	1x35/6mm²	6	Black	Class 2 = stranded	20167406	7021528002027	85444941
20110497	1x50/10mm²	10	Black	Class 2 = stranded	1043608	7021528002034	85444941
20172941	1x50/10mm² CI5	10	Black	Class 5 = flexible	20172941	7021528070033	85444941
20110498	1x70/10mm²	10	Black	Class 2 = stranded	1043609	7021528002041	85444941
20110499	1x95/10mm²	10	Black	Class 2 = stranded	1043610	7021528002058	85444942
20174003	1x95/10mm² CI5	10	Black	Class 5 = flexible	20174003	7021528070057	85444942
20110500	1x120/10mm²	10	Black	Class 2 = stranded	1043611	7021528002065	85444942
20172942	1x120/10mm² CI5	10	Black	Class 5 = flexible	20172942	7021528070064	85444942
20110501	1x150/16mm²	16	Black	Class 2 = stranded	1043612	7021528002072	85444942
20110502	1x185/16mm²	16	Black	Class 2 = stranded	1043613	7021528002089	85444942
20110503	1x240/16mm²	16	Black	Class 2 = stranded	20110503	7021528002096	85444942
20109432	1x300/16mm²	16	Black	Class 2 = stranded	1043615	7021528002102	85444942
20132148	1x400/25mm²	25	Black	Class 2 = stranded	20132148	7021528002119	85444942
20500936	1x400/25mm²	36	Black	Class 2 = stranded	20500936	7021523000103	85444942
20298574	1x500/35mm²	35	Black	Class 2 = stranded	20298574	7021528002126	85444942
20501006	1x500/35mm²	36	Black	Class 2 = stranded	20501006	7021523000110	85444942
20204148	1x630/35mm²	35	Black	Class 2 = stranded	20204148	7021528002133	85444942
20501007	1x630/35mm²	36	Black	Class 2 = stranded	20501007	7021523000127	85444942
20110504	2x1.5/4mm²	4	Black	Class 2 = stranded	1043620	7021528002157	85444941
20110515	2x2.5/4mm²	4	Black	Class 2 = stranded	1043621	7021528002294	85444941
20496347	2x2.5/6mm²	5	Black		1043653	7021523000035	85444941
20266581	2x2.5/6mm²	6	Black	Class 2 = stranded	20266581	7021528878790	85444941
20110526	2x4/6mm²	6	Black	Class 2 = stranded	1043622	7021528002454	85444941
20110530	2x6/6mm²	6	Black	Class 2 = stranded	1043623	7021528002515	85444941
20110536	2x10/10mm²	10	Black	Class 2 = stranded	1043624	7021528002577	85444941
20222967	2x10/10mm² CL5	10	Black	Class 5 = flexible	20222967	7021528006575	85444941
20109436	2x16/16mm²	16	Black	Class 2 = stranded	1043625	7021528002638	85444941

PRODUCT RANGE / ORDER DATA

SAP code	Basic construction	Nominal electrical copper cross section armouring [mm²]	Colour outer sheath	Conductor category	EL no.	EAN-code (GTIN)	Commodity code
20110547	2x25/16mm²	16	Black	Class 2 = stranded	1043626	7021528002690	85444941
20110762	2x35/16mm²	16	Black	Class 2 = stranded	1043627	7021528002751	85444941
20121221	2x50/25mm²	25	Black	Class 2 = stranded	20121221	7021528002812	85444941
20110554	2x70/35mm²	35	Black	Class 2 = stranded	1043629	7021528002874	85444941
20115558	2x95/50mm²	50	Black	Class 2 = stranded	20115558	7021528002942	85444942
20132308	2x120/60mm²	60	Black	Class 2 = stranded	20132308	7021528003000	85444942
20110505	3G1,5mm²		Black	Class 2 = stranded	1043619	7021528002164	85444941
20110507	3x1.5/4mm²	4	Black	Class 2 = stranded	1043640	7021528002188	85444941
20496413	3x1.5/6mm²	5	Black		1043654	7021523000004	85444941
20501031	3G1,5mm²		Black		1014400	7021523000134	85444941
20222965	3x1.5/6mm² Cl5	6	Black	Class 5 = flexible	20222965	7021528006186	85444941
20110517	3x2.5/6mm²	6	Black	Class 2 = stranded	1043641	7021528002324	85444941
20110516	3G2,5mm²		Black	Class 2 = stranded	1043639	7021528002300	85444941
20110527	3x4/6mm²	6	Black	Class 2 = stranded	1043642	7021528002461	85444941
20110529	3G4mm²		Black	Class 2 = stranded	20110529	7021528002508	85444941
20496415	3x6/10mm²	7	Black		1043655	7021523000073	85444941
20110531	3x6/6mm²	6	Black	Class 2 = stranded	1043643	7021528002522	85444941
20110533	3G6mm²		Black	Class 2 = stranded	20110533	7021528002546	85444941
20110537	3x10/10mm²	10	Black	Class 2 = stranded	1043644	7021528002584	85444941
20110539	3G10mm²		Black	Class 2 = stranded	20110539	7021528002607	85444941
20110544	3G16mm²		Black	Class 2 = stranded	20110544	7021528002669	85444941
20110542	3x16/16mm²	16	Black	Class 2 = stranded	1043645	7021528002645	85444941
20158156	3G25mm²		Black	Class 2 = stranded	20158156	7021528002744	85444941
20110548	3x25/16mm²	16	Black	Class 2 = stranded	1043646	7021528002706	85444941
20204127	3G35mm²		Black	Class 2 = stranded	20204127	7021528002782	85444941
20110550	3x35/16mm²	16	Black	Class 2 = stranded	1043647	7021528002768	85444941
20206669	3x35/16mm² Cl5	16	Black	Class 5 = flexible	20206669	7021528070767	85444941
20440581	3G50mm²		Black	Class 2 = stranded	20440581	7021528002867	85444941
20110552	3x50/25mm²	25	Black	Class 2 = stranded	1043648	7021528002829	85444941
20223926	3x50/25mm² Cl5	25	Black	Class 5 = flexible	20223926	7021528006827	85444941

PRODUCT RANGE / ORDER DATA

SAP code	Basic construction	Nominal electrical copper cross section armouring [mm²]	Colour outer sheath	Conductor category	EL no.	EAN-code (GTIN)	Commodity code
20221403	3G70mm²		Black	Class 2 = stranded	20221403	7021528002928	85444941
20109437	3x70/35mm²	35	Black	Class 2 = stranded	1043649	7021528002881	85444941
20169174	3x70/35mm² Cl5	35	Black	Class 5 = flexible	20169174	7021528070880	85444941
20109440	3x95/50mm²	50	Black	Class 2 = stranded	1043650	7021528002959	85444942
20109443	3x120/60mm²	60	Black	Class 2 = stranded	1043651	7021528003017	85444942
20109444	3x150/75mm² *)	75	Black	Class 2 = stranded	1043652	7021528003024	85444942
20168929	3x150/75mm² Cl5 *)	75	Black	Class 5 = flexible	20168929	7021528007022	85444942
20110765	3x185/95mm² *)	95	Black	Class 2 = stranded	20110765	7021528003925	85444942
20168931	3x185/95mm² Cl5 *)	95	Black	Class 5 = flexible	20168931	7021528007923	85444942
20164029	3x240/120mm² *)	120	Black	Class 2 = stranded	20164029	7021528003147	85444942
20168930	3x240/120mm² Cl5 *)	120	Black	Class 5 = flexible	20168930	7021528007145	85444942
20110508	4x1.5/6mm²	6	Black	Class 2 = stranded	1043660	7021528002195	85444941
20501032	4G1,5mm²		Black	Class 2 = stranded	20501032	7021523000141	85444941
20110506	4G1,5mm²		Black	Class 2 = stranded	20110506	7021528002171	85444941
20110519	4x2.5/6mm²	6	Black	Class 2 = stranded	1043661	7021528002355	85444941
20110518	4G2,5 mm²		Black	Class 2 = stranded	1043659	7021528002331	85444941
20497622	4x4/10mm²	7	Black		1043656	7021523000066	85444941
20110528	4x4/6mm²	6	Black	Class 2 = stranded	1043662	7021528002478	85444941
20110524	4G4mm²		Black	Class 2 = stranded	20110524	7021528002430	85444941
20110534	4G6mm²		Black	Class 2 = stranded	20110534	7021528002553	85444941
20110532	4x6/10mm²	10	Black	Class 2 = stranded	1043663	7021528002539	85444941
20266582	4x6/6mm²	6	Black	Class 2 = stranded	20266582	7021528878806	85444941
20110538	4x10/10mm²	10	Black	Class 2 = stranded	1043664	7021528002591	85444941
20110540	4G10mm²		Black	Class 2 = stranded	20110540	7021528002614	85444941
20354799	4x10/10mm² Cl5	10	Black	Class 5 = flexible	20354799	7021528006599	85444941
20110546	4G16mm²		Black	Class 2 = stranded	20110546	7021528002683	85444941
20110543	4x16/16mm²	16	Black	Class 2 = stranded	1043665	7021528002652	85444941
20110549	4x25/16mm²	16	Black	Class 2 = stranded	1043666	7021528002713	85444941
20172200	4G25mm²		Black	Class 2 = stranded	20172200	7021528002720	85444941
20110551	4x35/16mm²	16	Black	Class 2 = stranded	1043667	7021528002775	85444941

PRODUCT RANGE / ORDER DATA

SAP code	Basic construction	Nominal electrical copper cross section armouring [mm²]	Colour outer sheath	Conductor category	EL no.	EAN-code (GTIN)	Commodity code
20158157	4G35mm²		Black	Class 2 = stranded	20158157	7021528002799	85444941
20168720	4x35/16mm² CI5	16	Black	Class 5 = flexible	20168720	7021528070774	85444941
20196609	4G50mm²		Black	Class 2 = stranded	20196609	7021528002850	85444941
20110553	4x50/25mm²	25	Black	Class 2 = stranded	1043668	7021528002836	85444941
20184102	4G70mm²		Black	Class 2 = stranded	20184102	7021528002904	85444941
20109438	4x70/35mm²	35	Black	Class 2 = stranded	1043669	7021528002898	85444941
20110764	4G95mm²		Black	Class 2 = stranded	20110764	7021528002973	85444942
20109441	4x95/50mm²	50	Black	Class 2 = stranded	1043670	7021528002966	85444942
20204134	4G120mm²		Black	Class 2 = stranded	20204134	7021528003062	85444942
20120715	4x120/60mm²	60	Black	Class 2 = stranded	20120715	7021528003048	85444942
20204147	4G150mm²		Black	Class 2 = stranded	20204147	7021528003079	85444942
20117948	4x150/75mm² *)	75	Black	Class 2 = stranded	20117948	7021528003093	85444942
20121096	4G185mm²		Black	Class 2 = stranded	20121096	7021528003109	85444942
20118466	4x185/95mm² *)	95	Black	Class 2 = stranded	20118466	7021528003918	85444942
20110513	5G1,5mm²		Black	Class 2 = stranded	20110513	7021528002263	85444943
20110509	5x1.5/6mm²	6	Black	Class 2 = stranded	1043705	7021528002201	85444943
20496348	5x2.5/10mm²	7	Black		20496348	7021523000042	85444943
20110523	5G2,5mm²		Black	Class 2 = stranded	1043755	7021528002423	85444943
20121182	5x2.5/6mm²	6	Black	Class 2 = stranded	20121182	7021528002348	85444943
20110525	5G4mm²		Black	Class 2 = stranded	20110525	7021528002447	85444943
20110535	5G6mm²		Black	Class 2 = stranded	20110535	7021528002560	85444943
20110541	5G10mm²		Black	Class 2 = stranded	20110541	7021528002621	85444943
20110545	5G16mm²		Black	Class 2 = stranded	20110545	7021528002676	85444943
20133369	5G25mm²		Black	Class 2 = stranded	20133369	7021528002737	85444943
20110763	5G35mm²		Black	Class 2 = stranded	20110763	7021528002805	85444943
20204128	5G50mm²		Black	Class 2 = stranded	20204128	7021528002843	85444943
20204129	5G70mm²		Black	Class 2 = stranded	20204129	7021528002911	85444943
20109439	5x70/35mm²	35	Black	Class 2 = stranded	20109439	7021528002935	85444943
20109442	5G95mm²		Black	Class 2 = stranded	20109442	7021528002980	85444943
20432722	5G120mm²		Black	Class 2 = stranded	20432722	7021528003208	85444942

PRODUCT RANGE / ORDER DATA

SAP code	Basic construction	Nominal electrical copper cross section armouring [mm²]	Colour outer sheath	Conductor category	EL no.	EAN-code (GTIN)	Commodity code
20132888	5G150mm²		Black	Class 2 = stranded	20132888	7021528003185	85444943
20296758	7G1,5mm²		Black	Class 2 = stranded	20296758	7021528003222	85444943
20110510	7x1.5/6mm²	6	Black	Class 2 = stranded	1043707	7021528002218	85444943
20497571	7x1.5/10mm²	10	Black		1043657	7021523000011	85444943
20110520	7x2.5/10mm²	10	Black	Class 2 = stranded	1043757	7021528002379	85444943
20110514	7G2,5mm²		Black	Class 2 = stranded	20110514	7021528002287	85444943
20296364	8x2,5/10mm²	10	Black	Class 2 = stranded	20296364	7021528002317	85444943
20166001	8x4/10mm²	10	Black	Class 2 = stranded	20166001	7021528002492	85444943
20109433	12x1.5/10mm²	10	Black	Class 2 = stranded	1043712	7021528002225	85444943
20296757	12G1,5mm²		Black	Class 2 = stranded	20296757	7021528003215	85444943
20222966	12x1.5/10mm² Cl5	10	Black	Class 5 = flexible	20222966	7021528006223	85444943
20110521	12x2.5/10mm²	10	Black	Class 2 = stranded	1043762	7021528002386	85444943
20110511	19x1.5/10mm²	10	Black	Class 2 = stranded	1043719	7021528002232	85444943
20496414	19x1.5/16mm²	7	Black		1043658	7021523000028	85444943
20110522	19x2.5/16mm²	16	Black	Class 2 = stranded	1043769	7021528002393	85444943
20218690	24x4/16mm²	16	Black	Class 2 = stranded	20218690	7021528003192	85444943
20497356	24x4/25mm²	8	Black		20497356	7021523000080	85444943
20233143	25G1,5mm² Cl5		Black	Class 5 = flexible	20233143	7021528007206	85444943
20110512	27x1.5/10mm²	10	Black	Class 2 = stranded	1043727	7021528002249	85444943
20112294	27x2.5/16mm²	16	Black	Class 2 = stranded	1043777	7021528002409	85444943
20109434	37x1.5/16mm²	16	Black	Class 2 = stranded	1043737	7021528002256	85444943
20109435	37x2.5/16mm²	16	Black	Class 2 = stranded	1043787	7021528002416	85444943
20497555	37x2.5/25mm²	25	Black		1050149	7021523000059	85444943

*) 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
20497572	1x25/6mm²	6.3	1.2	11.2	1.1	11.2	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 CI5	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 CI5	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 CI5	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
20500936	1x400/25mm²	26	2.6	31.4	1.1	35.6	1.5
20298574	1x500/35mm²	29	2.8	34.6	1.1	37	1.5
20501006	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
20501007	1x630/35mm²	32.8	2.8	38.4	1.1	41	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
20496347	2x2.5/6mm²	2	1	4.2	1.1	11.7	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

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]
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
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
20496413	3x1.5/6mm²	1.6	1	3.8	1.1	10.3	0.8
20501031	3G1,5mm²	1.6	1	3.8	1.1	10.3	0.8
20222965	3x1.5/6mm² Cl5	1.6	1	3.9	1.1	10.5	0.8
20110517	3x2.5/6mm²	2	1	4.2	1.1	11	0.8
20110516	3G2,5mm²	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
20496415	3x6/10mm²	3.1	1	5.3	1.1	14.8	0.8
20110531	3x6/6mm²	3.1	1	5.3	1.1	13.5	0.8
20110533	3G6mm²	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
20440581	3G50mm²	8.75	1.4	11.8	1.1	27.5	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

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]
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
20168928	3x120/60mm² 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
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
20501032	4G1,5mm²	1.6	1	3.8	1.1	11.3	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
20497622	4x4/10mm²	2.5	1	4.7	1.1	14.7	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
20110534	4G6mm²	3.1	1	5.3	1.1	15	0.8
20110532	4x6/10mm²	3.1	1	5.3	1.1	15	0.8
20266582	4x6/6mm²	3.1	1	5.3	1.1	15	0.8
20110538	4x10/10mm²	4	1	6.2	1.1	17.5	0.8
20110540	4G10mm²	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

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]
20110551	4x35/16mm²	7.4	1.2	10.1	1.1	27	1
20158157	4G35mm²	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
20110764	4G95mm²	12.35	1.6	15.8	1.4	41	2
20109441	4x95/50mm²	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
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
20496348	5x2.5/10mm²	2	1	4.2	1.1	14.7	0.8
20110523	5G2,5mm²	2	1	4.2	1.1	13.5	0.8
20121182	5x2.5/6mm²	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
20204129	5G70mm²	10.6	1.4	13.6	1.1	39	1.5
20109439	5x70/35mm²	10.6	1.4	13.6	1.1	39	1.5
20109442	5G95mm²	12.35	1.6	15.8	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]
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
20296758	7G1,5mm²	1.6	1	3.9	1.1	13.5	0.8
20110510	7x1.5/6mm²	1.6	1	3.8	1.1	13.5	0.8
20497571	7x1.5/10mm²	1.6	1	3.8	1.1	14.4	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	12x1.5/10mm² Cl5	1.6	1	3.9	1.2	18	0.8
20110521	12x2.5/10mm²	2	1	4.2	1.2	19.5	0.8
20110511	19x1.5/10mm²	1.6	1	3.8	1.2	20.5	1
20496414	19x1.5/16mm²	1.6	1	3.8	1.2	21.8	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
20497356	24x4/25mm²	2.5	1	4.7	1.4	31.9	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	37x2.5/16mm²	2	1	4.2	1.4	31.5	1.5
20497555	37x2.5/25mm²	2	1	4.2	1.4	31.4	1.5

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

Conductor diameter tolerances for our Class 2 conductors are within the Lower and Upper Limits listed in IEC 60092-350 Annex D and Table D.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]
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
20497572	1x25/6mm²	0.3	8.5	1.2	14.8	0.8	512	302
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
20500936	1x400/25mm²	0.4	36.2	2.1	39.9	1.5	5,089	4,021
20298574	1x500/35mm²	0.4	40.7	2.2	42.5	2	6,225	4,991
20501006	1x500/35mm²	0.4	40.7	2.2	43.3	2	6,200	4,990
20204148	1x630/35mm²	0.4	40.7	2.3	46.5	2	7,620	6,220
20501007	1x630/35mm²	0.4	40.7	2.3	47.3	2	7,589	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
20496347	2x2.5/6mm²	0.3	8.5	1.2	14.1	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

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]
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
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
20496413	3x1.5/6mm²	0.3	8.5	1.2	13.9	0.8	318	92
20501031	3G1,5mm²	0.3	8.5	1.2	13.9	0.8	340	122
20222965	3x1.5/6mm² Cl5	0.3	8.5	1.3	14.5	0.8	380	132
20110517	3x2.5/6mm²	0.3	8.5	1.3	15	0.8	410	146
20110516	3G2,5mm²	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
20496415	3x6/10mm²	0.3	11.9	1.4	17.4	0.8	605	261
20110531	3x6/6mm²	0.3	10.2	1.4	17.5	0.8	605	261
20110533	3G6mm²	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
20440581	3G50mm²	0.3	20.4	1.9	32	1.5	2,455	1,431
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

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]
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	8,810	5,899
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
20501032	4G1,5mm²	0.3	10.2	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
20497622	4x4/10mm²	0.3	11.9	1.4	17.3	0.8	580	236
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
20110534	4G6mm²	0.3	11.9	1.4	18.5	0.8	720	331
20110532	4x6/10mm²	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
20110538	4x10/10mm²	0.3	11.9	1.5	21	1	965	481
20110540	4G10mm²	0.3	13.6	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

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]
20110551	4x35/16mm²	0.3	20.4	1.8	31	1.5	2,355	1,408
20158157	4G35mm²	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
20110764	4G95mm²	0.4	40.7	2.4	47	2	5,765	3,766
20109441	4x95/50mm²	0.5	49.5	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
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	10,935	7,521
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
20496348	5x2.5/10mm²	0.3	11.9	1.4	17.3	0.8	550	205
20110523	5G2,5mm²	0.3	10.2	1.4	17.5	0.8	550	205
20121182	5x2.5/6mm²	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
20204129	5G70mm²	0.4	40.7	2.3	45	2	5,230	3,442
20109439	5x70/35mm²	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

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]
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
20296758	7G1,5mm²	0.3	10.2	1.3	17	0.8	525	192
20110510	7x1.5/6mm²	0.3	10.2	1.3	17	0.8	525	192
20497571	7x1.5/10mm²	0.3	11.9	1.3	17.1	0.8	536	208
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
20110511	19x1.5/10mm²	0.3	15.3	1.6	24.5	1	1,060	400
20496414	19x1.5/16mm²	0.3	17.8	1.6	24.9	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
20497356	24x4/25mm²	0.4	36.1	2	35.7	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	37x2.5/16mm²	0.3	22.9	2	36	1.5	2,325	1,010
20497555	37x2.5/25mm²	0.4	36.2	2	36.8	1.5	2,503	1,158

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

Conductor diameter tolerances for our Class 2 conductors are within the Lower and Upper Limits listed in IEC 60092-350 Annex D and Table D.1

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) [Ohm/km]	Inductive Reactance (at 60Hz) [Ohm/km]	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
20497572	1x25/6mm²	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
20500936	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
20501006	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
20501007	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
20496347	2x2.5/6mm²	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

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) [Ohm/km]	Inductive Reactance (at 60Hz) [Ohm/km]	Current carrying capacity [A]	Short circuit current conductor (1sec) [kA]	Short circuit current conductor (5sec) [kA]
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
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
20496413	3x1.5/6mm²	12.2	15.6	0.115	0.138	16	0.21	0.09
20501031	3G1,5mm²	12.2	15.6	0.115	0.138	20	0.21	0.09
20222965	3x1.5/6mm² Cl5	13.7	17.469	0.115	0.138	16	0.21	0.09
20110517	3x2.5/6mm²	7.56	9.64	0.107	0.129	21	0.35	0.16
20110516	3G2,5mm²	7.56	9.64	0.107	0.129	26	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
20496415	3x6/10mm²	3.11	3.97	0.094	0.113	36	0.84	0.38
20110531	3x6/6mm²	3.11	3.97	0.094	0.113	36	0.84	0.38
20110533	3G6mm²	3.11	3.97	0.094	0.113	44	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
20110550	3x35/16mm²	0.529	0.675	0.079	0.095	110	4.9	2.19
20206669	3x35/16mm² Cl5	0.565	0.72	0.077	0.092	110	4.9	2.19
20440581	3G50mm²	0.391	0.499	0.078	0.094	167	7	3.13
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

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) [Ohm/km]	Inductive Reactance (at 60Hz) [Ohm/km]	Current carrying capacity [A]	Short circuit current conductor (1sec) [kA]	Short circuit current conductor (5sec) [kA]
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
20168931	3x185/95mm² Cl5 *)	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
20501032	4G1,5mm²	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
20497622	4x4/10mm²	4.7	5.99	0.1	0.12	28	0.56	0.25
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
20110534	4G6mm²	3.11	3.97	0.094	0.113	36	0.84	0.38
20110532	4x6/10mm²	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
20110538	4x10/10mm²	1.84	2.35	0.088	0.105	50	1.4	0.63
20110540	4G10mm²	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

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) [Ohm/km]	Inductive Reactance (at 60Hz) [Ohm/km]	Current carrying capacity [A]	Short circuit current conductor (1sec) [kA]	Short circuit current conductor (5sec) [kA]
20110551	4x35/16mm²	0.529	0.675	0.079	0.095	110	4.9	2.19
20158157	4G35mm²	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
20110764	4G95mm²	0.195	0.249	0.075	0.09	205	13.3	5.95
20109441	4x95/50mm²	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
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
20496348	5x2.5/10mm²	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
20121182	5x2.5/6mm²	7.56	9.64	0.107	0.129	17.5	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
20204129	5G70mm²	0.27	0.344	0.075	0.09	169	9.8	4.38
20109439	5x70/35mm²	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

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) [Ohm/km]	Inductive Reactance (at 60Hz) [Ohm/km]	Current carrying capacity [A]	Short circuit current conductor (1sec) [kA]	Short circuit current conductor (5sec) [kA]
20432722	5G120mm²	0.154	0.196	0.073	0.088	237	16.8	7.51
20132888	5G150mm²	0.126	0.161	0.073	0.088	272	21	9.39
20296758	7G1,5mm²	12.2	15.6	0.115	0.138	12.5	0.21	0.09
20110510	7x1.5/6mm²	12.2	15.6	0.115	0.138	12	0.21	0.09
20497571	7x1.5/10mm²	12.2	15.6	0.115	0.138	12	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
20110511	19x1.5/10mm²	12.2	15.6	0.115	0.138	8.5	0.21	0.09
20496414	19x1.5/16mm²	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
20497356	24x4/25mm²	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	37x2.5/16mm²	7.56	9.64	0.107	0.129	9	0.35	0.16
20497555	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	25	30	35	40	45	50	55	60	65	70	75	80	85
Rating factor / Korreksjonsfaktor	1,20	1,15	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 (mm^2) of conductors / 50 N x totalt ledertverrsnitt (mm^2)	- 20 °C

D = cable overall diameter

Maximum Tensile Load during installation shall not in any case exceed 20000N

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