



# **Offshore Cables**

**Basic program - IEC / NEK 606**



## Dear Customer

At Draka we take pleasure in presenting this handbook, which covers the total range of your IEC / NEK 606 offshore (topside) cable needs.

The range comprises cables from 60V to 20 kV in applications like communication, data, instrumentation, power and control.

The products are subject to continuous research and improvement. The Quality Assurance system is certified by DnV, Det norske Veritas, to be in accordance with ISO 9001 and 14001.

The FlexFlame is today a multipurpose, "all in one", offshore cable with dual compound sheathing making the product resistant to oil, MUD and fire. It is, of course, halogenfree due to environmental care.

Cables from Draka are distributed worldwide through our well established network.

We aim to provide solutions to suit your special requirements and trust you will find this handbook to be a useful tool in specifying your current and future projects.

Yours sincerely

Draka

## Offshore Cables Basic Program - IEC / NEK 606

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## NEK 606 Cable types

List of all the cable types listed in NEK 606 : NEK 2004 Third Edition

NEK 606 Code	NEK 606 Description	Draka Norsk Kabel's cable type
<b>Power cables LV and MV</b>		
P1 P1 / P8	RFOU / TFOU 0,6/1 kV	RFOU 0,6/1 kV
P2 P2 / P9	RFOU / TFOU 3,6/6(7,2) kV	RFOU 3,6/6(7,2) kV
P3 P3/P10	RFOU / TFOU 6/10(12) kV	RFOU 6/10(12) kV
P4 P4/P11	RFOU / TFOU 8,7/15(17,5) kV	RFOU 8,7/15(17,5) kV
P5 P5/P12	BFOU 0,6/1 kV	BFOU 0,6/1 kV
P6 P6/P13	BFOU 3,6/6(7,2) kV	-
P7 P7/P14	BFOU 6/10(12) kV	-
P15	UX 0,6/1 kV	UX 0,6/1 kV
P16	IFLI 250V	IFLI 250V
P17	BU 0,6/1 kV	BU 0,6/1 kV
P18	RU 0,6/1 kV	RU 0,6/1 kV
P19 P19/P21	RFOU / TFOU 12/20(24) kV	RFOU 12/20(24) kV
P20 P20/P22	RFOU / TFOU 18/30(36) kV	RFOU 18/30(36) kV
P30	RFOU-HCF / TFOU-HCF 6/10(12) kV	RFOU-HCF 6/10(12) kV
P31	RFOU-HCF / TFOU-HCF 8,7/15(17,5) kV	RFOU-HCF 8,7/15(17,5) kV
P32	RFOU-HCF / TFOU-HCF 12/20(24) kV	RFOU-HCF 12/20(24) kV
P33	RFOU-HCF / TFOU-HCF 18/30(36) kV	RFOU-HCF 18/30(36) kV
P34	BFOU-HCF 0,6/1 kV	BFOU-HCF 0,6/1 kV
<b>Instrumentation and telecommunication cables</b>		
S1 S1/S5	RFOU(i) 250V	RFOU(i) 250V
S2 S2/S6	RFOU(c) 250V	RFOU(c) 250V
S3 S3/S7	BFOU(i) 250V	BFOU(i) 250V
S4 S4/S8	BFOU(c) 250V	BFOU(c) 250V
S9	IYXI(c) 60V	-
S10	IYOI(c) 60V	-
S11	RU(i) 250V	RU(i) 250V
S12	RU(c) 250V	RU(c) 250V
S13	BU(i) 250V	BU(i) 250V
S14	BU(c) 250V	BU(c) 250V
S15	BFOU-HCF(i) 250V	BFOU-HCF(i) 250V
S16	BFOU-HCF(c) 250V	BFOU-HCF(c) 250V
<b>Optical Fibre Cable</b>		
F1	QFCI	QFCI
F4	QFCI-HCF	QFCI-HCF
F5	QFCB	QFCB
F6	AICI	AICI
Cable types P8 – P14, P21 – P22, S5 – S8 and F5 are to be mud resistant as per NEK 606		

**Halogen-free, mud resistant instrumentation cable RFOU(i) 250V, S1/S5**
**Flame retardant halogen-free instrumentation cable. Mud resistant**
**RFOU(i) 250V**
**EPR/EPR/TCWB/EVA**
**NEK 606 CodeS1/S5**

**Operating temperature : 90°C**  
**Operating Voltage : 250V**
**Application**

Fixed installation for instrumentation, communication, Control and alarm systems in both EX- and safe areas. Meets the mud resistant requirements in NEK 606.

**Standards applied**

IEC 60092-376 (2003-05)	- Design
IEC 60228 class 2	- Conductor
IEC 60092-351	- Insulation
IEC 60092-359	- Sheath
IEC 60332-1	- Flame Retardant
IEC 60332-3-22	- Flame Retardant
IEC 600754-1,2	- Halogen Free
IEC 61034-1,2	- Low Smoke

**Construction**

	Code Letter	
<b>Conductor</b>		Tinned annealed stranded circular copper (STCC), IEC 60228 class 2
<b>Insulation</b>	<b>R</b>	EP-rubber, IEC 60092-351 (EPR)
<b>Pair / Triple / Quad twisting</b>		Color coded cores twisted together. Pairs/Triples are screened by copper backed polyester tape with tinned copper drain wire. Each pair/triple is wrapped with polyester tape to prevent electrical contact with adjacent pairs/triples. Pairs/triples are identified by numbers printed directly on the insulated conductors.
<b>Lay up / Shielding</b>		Individually shielded pairs/triples/quads are laid up in concentric layers and wrapped with a PETP tape.
<b>Inner covering</b>	<b>F</b>	Flame retardant and halogen-free thermoset compound
<b>Tape over inner covering</b>		PET tape
<b>Armour/screen</b>	<b>O</b>	Tinned annealed copper wire braid
<b>Tape over armour/screen</b>		PET tape
<b>Outer sheath</b>	<b>U</b>	Flame retardant, halogen-free and mud resistant thermoset compound, SHF2 (IEC 60092-359)
<b>Marking text</b>		E.g. "meter" "år" DRAKA NORSK KABEL RFOU(i) 250V S1/S5 4 PAIR 0,75 mm2 IEC 60092-376 IEC 60332-3-22 ETL Classified No. 3067229
<b>Outer sheath colour</b>		Grey or Blue

**Core identification instrumentation cables**

Pair	Black - Light Blue
Triple	Black - Light Blue - Brown
Quad	Black - Light Blue - Brown - Grey

**Range and dimensions**

Number of elements	No of cores in element	Cross section core, mm <sup>2</sup>	Conductor Diameter, mm	Insulation Thickness, mm	Thickness Inner covering, mm	Diameter inner covering, mm	Diameter Braid Wire, mm	Thickness Outer Sheath, mm	Diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)	Copper content Approx. (kg/km)
1	2	0.75	1.1	0.6	1.1	7 ± 0.5	0.2	1.1	10 ± 0.8	185	56
1	2	0.75	1.1	0.6	1.1	7 ± 0.5	0.2	1.1	10 ± 0.8	185	56
2	2	0.75	1.1	0.6	1.1	10 ± 0.8	0.2	1.2	13 ± 0.8	280	89
2	2	0.75	1.1	0.6	1.1	10 ± 0.8	0.2	1.2	13 ± 0.8	280	89
4	2	0.75	1.1	0.6	1.1	11.5 ± 0.8	0.3	1.3	15 ± 0.8	440	173
4	2	0.75	1.1	0.6	1.1	11.5 ± 0.8	0.3	1.3	15 ± 0.8	440	173
8	2	0.75	1.1	0.6	1.1	15.5 ± 0.8	0.3	1.5	19.5 ± 0.8	720	279
8	2	0.75	1.1	0.6	1.1	15.5 ± 0.8	0.3	1.5	19.5 ± 0.8	720	279
12	2	0.75	1.1	0.6	1.3	18.5 ± 0.8	0.3	1.6	22.5 ± 1	940	369
12	2	0.75	1.1	0.6	1.3	18.5 ± 0.8	0.3	1.6	22.5 ± 1	940	369
16	2	0.75	1.1	0.6	1.4	20.5 ± 1	0.3	1.7	25 ± 1	1180	467
16	2	0.75	1.1	0.6	1.4	20.5 ± 1	0.3	1.7	25 ± 1	1180	467
24	2	0.75	1.1	0.6	1.6	25.5 ± 1	0.3	1.9	30.5 ± 1.5	1650	638
24	2	0.75	1.1	0.6	1.6	25.5 ± 1	0.3	1.9	30.5 ± 1.5	1650	638
1	3	0.75	1.1	0.6	1.1	7 ± 0.5	0.2	1.1	10.5 ± 0.8	200	63
1	3	0.75	1.1	0.6	1.1	7 ± 0.5	0.2	1.1	10.5 ± 0.8	200	63
2	3	0.75	1.1	0.6	1.1	11 ± 0.8	0.3	1.3	14.5 ± 0.8	380	151
2	3	0.75	1.1	0.6	1.1	11 ± 0.8	0.3	1.3	14.5 ± 0.8	380	151
4	3	0.75	1.1	0.6	1.1	12.5 ± 0.8	0.3	1.4	16.5 ± 0.8	530	218
4	3	0.75	1.1	0.6	1.1	12.5 ± 0.8	0.3	1.4	16.5 ± 0.8	530	218
8	3	0.75	1.1	0.6	1.1	17 ± 0.8	0.3	1.6	21.5 ± 1	870	352
8	3	0.75	1.1	0.6	1.1	17 ± 0.8	0.3	1.6	21.5 ± 1	870	352
12	3	0.75	1.1	0.6	1.3	20.5 ± 1	0.3	1.7	25 ± 1	1170	479
16	3	0.75	1.1	0.6	1.4	23 ± 1	0.3	1.8	28 ± 1	1470	605
16	3	0.75	1.1	0.6	1.4	23 ± 1	0.3	1.8	28 ± 1	1470	605
19	3	0.75	1.1	0.6	1.4	24 ± 1	0.3	1.8	29 ± 1	1630	681
24	3	0.75	1.1	0.6	1.8	29 ± 1	0.3	2	34.5 ± 1.5	2150	858
24	3	0.75	1.1	0.6	1.8	29 ± 1	0.3	2	34.5 ± 1.5	2150	858
1	2	1.5	1.6	0.7	1.1	8 ± 0.5	0.2	1.1	11 ± 0.8	230	72
1	2	1.5	1.6	0.7	1.1	8 ± 0.5	0.2	1.1	11 ± 0.8	230	72
2	2	1.5	1.6	0.7	1.1	12 ± 0.8	0.3	1.3	15.5 ± 0.8	420	169
2	2	1.5	1.6	0.7	1.1	12 ± 0.8	0.3	1.3	15.5 ± 0.8	420	169
4	2	1.5	1.6	0.7	1.1	14 ± 0.8	0.3	1.4	18 ± 0.8	600	253



Number of elements	No of cores in element	Cross section core, mm <sup>2</sup>	Conductor Diameter, mm	Insulation Thickness, mm	Thickness Inner covering, mm	Diameter inner covering, mm	Diameter Braid Wire, mm	Thickness Outer Sheath, mm	Diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)	Copper content Approx. (kg/km)
4	2	1.5	1.6	0.7	1.1	14 ± 0.8	0.3	1.4	18 ± 0.8	600	253
8	2	1.5	1.6	0.7	1.1	19 ± 0.8	0.3	1.6	23 ± 1	1000	424
8	2	1.5	1.6	0.7	1.1	19 ± 0.8	0.3	1.6	23 ± 1	1000	424
12	2	1.5	1.6	0.7	1.3	23 ± 1	0.3	1.8	27.5 ± 1	1370	585
12	2	1.5	1.6	0.7	1.3	23 ± 1	0.3	1.8	27.5 ± 1	1370	585
16	2	1.5	1.6	0.7	1.4	25.5 ± 1	0.3	1.9	30.5 ± 1.5	1730	747
16	2	1.5	1.6	0.7	1.4	25.5 ± 1	0.3	1.9	30.5 ± 1.5	1730	747
19	2	1.5	1.6	0.7	1.4	26.5 ± 1	0.3	1.9	31.5 ± 1.5	1940	875
19	2	1.5	1.6	0.7	1.4	26.5 ± 1	0.3	1.9	31.5 ± 1.5	1940	875
24	2	1.5	1.6	0.7	1.8	32 ± 1.5	0.4	2.2	38 ± 1.5	2660	1176
32	2	1.5	1.6	0.7	1.9	35.5 ± 1.5	0.4	2.3	42 ± 2	3320	1494
32	2	1.5	1.6	0.7	1.9	35.5 ± 1.5	0.4	2.3	42 ± 2	3320	1494
1	3	1.5	1.6	0.7	1.1	8.5 ± 0.5	0.2	1.1	11.5 ± 0.8	260	93
1	3	1.5	1.6	0.7	1.1	8.5 ± 0.5	0.2	1.1	11.5 ± 0.8	260	93
2	3	1.5	1.6	0.7	1.1	13.5 ± 0.8	0.3	1.4	17.5 ± 0.8	510	213
4	3	1.5	1.6	0.7	1.1	15.5 ± 0.8	0.3	1.5	20 ± 1	740	326
4	3	1.5	1.6	0.7	1.1	15.5 ± 0.8	0.3	1.5	20 ± 1	740	326
8	3	1.5	1.6	0.7	1.1	21 ± 1	0.3	1.7	25.5 ± 1	1250	561
8	3	1.5	1.6	0.7	1.1	21 ± 1	0.3	1.7	25.5 ± 1	1250	561
12	3	1.5	1.6	0.7	1.3	26 ± 1	0.3	1.9	30.5 ± 1.5	1730	780
12	3	1.5	1.6	0.7	1.3	26 ± 1	0.3	1.9	30.5 ± 1.5	1730	780
16	3	1.5	1.6	0.7	1.6	29.5 ± 1	0.3	2	34.5 ± 1.5	2250	998
16	3	1.5	1.6	0.7	1.6	29.5 ± 1	0.3	2	34.5 ± 1.5	2250	998
24	3	1.5	1.6	0.7	1.8	36.5 ± 1.5	0.4	2.3	42.5 ± 2	3370	1559
24	3	1.5	1.6	0.7	1.8	36.5 ± 1.5	0.4	2.3	42.5 ± 2	3370	1559
1	2	2.5	2	0.7	1.1	9 ± 0.5	0.2	1.1	12 ± 0.8	280	99
2	2	2.5	2	0.7	1.1	13.5 ± 0.8	0.3	1.4	17.5 ± 0.8	530	224



**Electrical values instrumentation cables**

Type	Capacitance, approx. (nF/km)	Inductance, approx. (mH/km)	Resistance at 20°C, max. (Ohm/km)	L/R ratio, (microH/Ohm)
Shielded pair 0,75 mm <sup>2</sup>	110	0,67	24,8	14,3
Shielded triple 0,75 mm <sup>2</sup>	110	0,67	24,8	14,3
Shielded pair 1,5 mm <sup>2</sup>	125	0,63	12,2	26,6
Shielded triple 1,5 mm <sup>2</sup>	125	0,63	12,2	26,6
Shielded pair 2,5 mm <sup>2</sup>	145	0,59	7,56	39,0
Shielded triple 2,5 mm <sup>2</sup>	145	0,59	7,56	39,0

**Ordering information**

Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.
892000	RFOU(l) 1PAIR 0.75mm <sup>2</sup> S1/S5	GREY	Yes	7021528920000	1044620
892001	RFOU(l) 1PAIR 0.75mm <sup>2</sup> S1/S5	BLUE	Yes	7021528920017	1044619
892006	RFOU(l) 2PAIR 0.75mm <sup>2</sup> S1/S5	GREY	Yes	7021528920062	1044621
892007	RFOU(l) 2PAIR 0.75mm <sup>2</sup> S1/S5	BLUE	-	7021528920079	1044622
892018	RFOU(l) 4PAIR 0.75mm <sup>2</sup> S1/S5	GREY	Yes	7021528920185	1044623
892019	RFOU(l) 4PAIR 0.75mm <sup>2</sup> S1/S5	BLUE	-	7021528920192	1044624
892030	RFOU(l) 8PAIR 0.75mm <sup>2</sup> S1/S5	GREY	Yes	7021528920307	1044628
892031	RFOU(l) 8PAIR 0.75mm <sup>2</sup> S1/S5	BLUE	-	7021528920314	1044629
892036	RFOU(l) 12PAIR 0.75mm <sup>2</sup> S1/S5	GREY	-	7021528920369	1044630
892037	RFOU(l) 12PAIR 0.75mm <sup>2</sup> S1/S5	BLUE	-	7021528920376	1044631
892042	RFOU(l) 16PAIR 0.75mm <sup>2</sup> S1/S5	GREY	-	7021528920420	1044633
892043	RFOU(l) 16PAIR 0.75mm <sup>2</sup> S1/S5	BLUE	-	7021528920437	1044632
892048	RFOU(l) 24PAIR 0.75mm <sup>2</sup> S1/S5	GREY	-	7021528920482	1044636
892049	RFOU(l) 24PAIR 0.75mm <sup>2</sup> S1/S5	BLUE	-	7021528920499	1044637
892060	RFOU(l) 1TRIP 0.75mm <sup>2</sup> S1/S5	GREY	Yes	7021528920604	1044690
892061	RFOU(l) 1TRIP 0.75mm <sup>2</sup> S1/S5	BLUE	Yes	7021528920611	1044689
892066	RFOU(l) 2TRIP 0.75mm <sup>2</sup> S1/S5	GREY	-	7021528920666	1044691
892067	RFOU(l) 2TRIP 0.75mm <sup>2</sup> S1/S5	BLUE	-	7021528920673	1044692
892078	RFOU(l) 4TRIP 0.75mm <sup>2</sup> S1/S5	GREY	-	7021528920789	1044693
892079	RFOU(l) 4TRIP 0.75mm <sup>2</sup> S1/S5	BLUE	-	7021528920796	1044694
892090	RFOU(l) 8TRIP 0.75mm <sup>2</sup> S1/S5	GREY	-	7021528920901	1044697
892091	RFOU(l) 8TRIP 0.75mm <sup>2</sup> S1/S5	BLUE	-	7021528920918	1044698
892097	RFOU(l) 12TRIP 0.75mm <sup>2</sup> S1/S5	BLUE	-	7021528920970	1044700
892102	RFOU(l) 16TRIP 0.75mm <sup>2</sup> S1/S5	GREY	-	7021528921021	1044701
892103	RFOU(l) 16TRIP 0.75mm <sup>2</sup> S1/S5	BLUE	-	7021528921038	1044702
892106	RFOU(l) 19TRIP 0.75mm <sup>2</sup> S1/S5	GREY	-	7021528921069	-
892108	RFOU(l) 24TRIP 0.75mm <sup>2</sup> S1/S5	GREY	-	7021528921083	1044707
892109	RFOU(l) 24TRIP 0.75mm <sup>2</sup> S1/S5	BLUE	-	7021528921090	1044708
892200	RFOU(l) 1PAIR 1.5mm <sup>2</sup> S1/S5	GREY	Yes	7021528922004	1044460
892201	RFOU(l) 1PAIR 1.5mm <sup>2</sup> S1/S5	BLUE	-	7021528922011	1044459
892206	RFOU(l) 2PAIR 1.5mm <sup>2</sup> S1/S5	GREY	-	7021528922066	1044661
892207	RFOU(l) 2PAIR 1.5mm <sup>2</sup> S1/S5	BLUE	-	7021528922073	1044662
892218	RFOU(l) 4PAIR 1.5mm <sup>2</sup> S1/S5	GREY	-	7021528922189	1044663
892219	RFOU(l) 4PAIR 1.5mm <sup>2</sup> S1/S5	BLUE	-	7021528922196	1044664
892230	RFOU(l) 8PAIR 1.5mm <sup>2</sup> S1/S5	GREY	-	7021528922301	1044668
892231	RFOU(l) 8PAIR 1.5mm <sup>2</sup> S1/S5	BLUE	-	7021528922318	1044669
892236	RFOU(l) 12PAIR 1.5mm <sup>2</sup> S1/S5	GREY	-	7021528922363	1044670
892237	RFOU(l) 12PAIR 1.5mm <sup>2</sup> S1/S5	BLUE	-	7021528922370	1044671
892242	RFOU(l) 16PAIR 1.5mm <sup>2</sup> S1/S5	GREY	-	7021528922424	1044673
892243	RFOU(l) 16PAIR 1.5mm <sup>2</sup> S1/S5	BLUE	-	7021528922431	1044672
892245	RFOU(l) 19PAIR 1.5mm <sup>2</sup> S1/S5	GREY	-	7021528922455	1044674
892246	RFOU(l) 19PAIR 1.5mm <sup>2</sup> S1/S5	BLUE	-	7021528922462	-
892249	RFOU(l) 24PAIR 1.5mm <sup>2</sup> S1/S5	BLUE	-	7021528922493	1044679
892254	RFOU(l) 32PAIR 1.5mm <sup>2</sup> S1/S5	GREY	-	7021528922547	-
892255	RFOU(l) 32PAIR 1.5mm <sup>2</sup> S1/S5	BLUE	-	7021528922554	-





Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.
892260	RFOU(l) 1TRIP 1.5mm <sup>2</sup> S1/S5	GREY	Yes	7021528922608	1044560
892261	RFOU(l) 1TRIP 1.5mm <sup>2</sup> S1/S5	BLUE	-	7021528922615	1044559
892266	RFOU(l) 2TRIP 1.5mm <sup>2</sup> S1/S5	GREY	-	7021528922660	1044762
892278	RFOU(l) 4TRIP 1.5mm <sup>2</sup> S1/S5	GREY	-	7021528922783	1044764
892279	RFOU(l) 4TRIP 1.5mm <sup>2</sup> S1/S5	BLUE	-	7021528922790	-
892290	RFOU(l) 8TRIP 1.5mm <sup>2</sup> S1/S5	GREY	-	7021528922905	1044768
892291	RFOU(l) 8TRIP 1.5mm <sup>2</sup> S1/S5	BLUE	-	7021528922912	1044769
892296	RFOU(l) 12TRIP 1.5mm <sup>2</sup> S1/S5	GREY	-	7021528922967	1044770
892297	RFOU(l) 12TRIP 1.5mm <sup>2</sup> S1/S5	BLUE	-	7021528922974	1044771
892302	RFOU(l) 16TRIP 1.5mm <sup>2</sup> S1/S5	GREY	-	7021528923025	1044773
892303	RFOU(l) 16TRIP 1.5mm <sup>2</sup> S1/S5	BLUE	-	7021528923032	1044772
892308	RFOU(l) 24TRIP 1.5mm <sup>2</sup> S1/S5	GREY	-	7021528923087	1044779
892309	RFOU(l) 24TRIP 1.5mm <sup>2</sup> S1/S5	BLUE	-	7021528923094	1044780
892400	RFOU(l) 1PAIR 2.5mm <sup>2</sup> S1/S5	GREY	-	7021528924008	-
892406	RFOU(l) 2PAIR 2.5mm <sup>2</sup> S1/S5	GREY	-	7021528924060	-

### Installation recommendations

Minimum Bending Radius during Installation	Minimum Bending Radius Fixed Installed	Maximum Tensile Load During Installation	Minimum Installation Temperature
8 x D	6 x D	50 N /mm <sup>2</sup>	-20°C

**Halogen-free, mud resistant instrumentation cable RFOU(c) 250V, S2/S6**

Flame retardant halogen-free instrumentation cable. Mud resistant

**RFOU(c) 250V**

EPR/EPR/TCWB/EVA

NEK 606 Code S2/S6



**Operating temperature** : 90°C  
**Operating Voltage** : 250V

**Application**

Fixed installation for instrumentation, communication, Control and alarm systems in both EX- and safe areas. Meets the mud resistant requirements in NEK 606.

**Standards applied**

IEC 60092-376 (2003-05)	- Design
IEC 60228 class 2	- Conductor
IEC 60092-351	- Insulation
IEC 60092-359	- Sheath
IEC 60332-1	- Flame Retardant
IEC 60332-3-22	- Flame Retardant
IEC 600754-1,2	- Halogen Free
IEC 61034-1,2	- Low Smoke

**Construction**

	Code Letter	
<b>Conductor</b>		Tinned annealed stranded circular copper (STCC), IEC 60228 class 2
<b>Insulation</b>	<b>R</b>	EP-rubber, IEC 60092-351 (EPR)
<b>Pair / Triple / Quad twisting</b>		Color coded cores twisted together and wrapped with polyester tape. Pairs/Triples are laid up collectively and screened by copper backed polyester tape with tinned copper drain wire. Pairs/triples are identified by numbers printed directly on the insulated conductors.
<b>Inner covering</b>	<b>F</b>	Flame retardant and halogen-free thermoset compound
<b>Tape over inner covering</b>		PET tape
<b>Armour/screen</b>	<b>O</b>	Tinned annealed copper wire braid
<b>Tape over armour/screen</b>		PET tape
<b>Outer sheath</b>	<b>U</b>	Flame retardant, halogen-free and mud resistant thermoset compound, SHF2 (IEC 60092-359)
<b>Marking text</b>		E.g. "meter" "år" DRAKA NORSK KABEL RFOU(c) 250V S2/S6 8 PAIR 0,75 mm <sup>2</sup> IEC 60092-376 IEC 60332-3-22 ETL Classified No. 3067229
<b>Outer sheath colour</b>		Grey or Blue

## Core identification instrumentation cables

Pair                               Black - Light Blue  
 Triple                            Black - Light Blue - Brown  
 Quad                             Black - Light Blue - Brown - Grey

### Range and dimensions

Number of elements	No of cores in element	Cross section core, mm <sup>2</sup>	Conductor Diameter, mm	Insulation Thickness, mm	Thickness Inner covering, mm	Diameter inner covering, mm	Diameter Braid Wire, mm	Thickness Outer Sheath, mm	Diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)	Copper content Approx. (kg/km)
2	2	0.75	1.1	0.6	1.1	10 ± 0.8	0.2	1.2	13 ± 0.8	275	84
2	2	0.75	1.1	0.6	1.1	10 ± 0.8	0.2	1.2	13 ± 0.8	275	84
4	2	0.75	1.1	0.6	1.1	11.5 ± 0.8	0.3	1.3	15 ± 0.8	390	143
4	2	0.75	1.1	0.6	1.1	11.5 ± 0.8	0.3	1.3	15 ± 0.8	390	144
8	2	0.75	1.1	0.6	1.1	15.5 ± 0.8	0.3	1.4	19.5 ± 0.8	630	232
8	2	0.75	1.1	0.6	1.1	15.5 ± 0.8	0.3	1.4	19.5 ± 0.8	630	232
12	2	0.75	1.1	0.6	1.3	18 ± 0.8	0.3	1.5	22 ± 1	800	304
12	2	0.75	1.1	0.6	1.3	18 ± 0.8	0.3	1.5	22 ± 1	800	304
16	2	0.75	1.1	0.6	1.4	19.5 ± 0.8	0.3	1.6	23.5 ± 1	970	376
16	2	0.75	1.1	0.6	1.4	19.5 ± 0.8	0.3	1.6	23.5 ± 1	970	376
19	2	0.75	1.1	0.6	1.4	20.5 ± 1	0.3	1.7	25 ± 1	1110	443
24	2	0.75	1.1	0.6	1.6	24 ± 1	0.3	1.8	28.5 ± 1	1370	537
24	2	0.75	1.1	0.6	1.6	24 ± 1	0.3	1.8	28.5 ± 1	1370	537
2	3	0.75	1.1	0.6	1.1	11 ± 0.8	0.3	1.3	14.5 ± 0.8	360	130
2	3	0.75	1.1	0.6	1.1	11 ± 0.8	0.3	1.3	14.5 ± 0.8	360	130
4	3	0.75	1.1	0.6	1.1	12.5 ± 0.8	0.3	1.3	16.5 ± 0.8	480	188
4	3	0.75	1.1	0.6	1.1	12.5 ± 0.8	0.3	1.3	16.5 ± 0.8	480	188
8	3	0.75	1.1	0.6	1.1	17 ± 0.8	0.3	1.5	21 ± 1	780	305
8	3	0.75	1.1	0.6	1.1	17 ± 0.8	0.3	1.5	21 ± 1	780	305
12	3	0.75	1.1	0.6	1.3	20 ± 1	0.3	1.6	24 ± 1	1010	406
16	3	0.75	1.1	0.6	1.4	21.5 ± 1	0.3	1.7	26 ± 1	1250	515
24	3	0.75	1.1	0.6	1.8	27 ± 1	0.3	2	32 ± 1.5	1830	732
24	3	0.75	1.1	0.6	1.8	27 ± 1	0.3	2	32 ± 1.5	1830	732
2	2	1.5	1.6	0.7	1.1	12 ± 0.8	0.3	1.3	15.5 ± 0.8	410	162
2	2	1.5	1.6	0.7	1.1	12 ± 0.8	0.3	1.3	15.5 ± 0.8	410	162
4	2	1.5	1.6	0.7	1.1	14 ± 0.8	0.3	1.4	18 ± 0.8	560	234
4	2	1.5	1.6	0.7	1.1	14 ± 0.8	0.3	1.4	18 ± 0.8	560	234
8	2	1.5	1.6	0.7	1.1	19 ± 0.8	0.3	1.6	23 ± 1	910	378
8	2	1.5	1.6	0.7	1.1	19 ± 0.8	0.3	1.6	23 ± 1	910	378
10	2	1.5	1.6	0.7	1.2	21 ± 1	0.3	1.7	25.5 ± 1	1060	458
12	2	1.5	1.6	0.7	1.3	22 ± 1	0.3	1.7	26.5 ± 1	1190	513
16	2	1.5	1.6	0.7	1.4	24 ± 1	0.3	1.8	28.5 ± 1	1470	649
16	2	1.5	1.6	0.7	1.4	24 ± 1	0.3	1.8	28.5 ± 1	1470	649
24	2	1.5	1.6	0.7	1.8	30 ± 1.5	0.3	2.1	35.5 ± 1.5	2150	920
32	2	1.5	1.6	0.7	1.9	33 ± 1.5	0.4	2.2	39 ± 1.5	2750	1247
32	2	1.5	1.6	0.7	1.9	33 ± 1.5	0.4	2.2	39 ± 1.5	2750	1247
2	3	1.5	1.6	0.7	1.1	13 ± 0.8	0.3	1.4	17 ± 0.8	490	191

Number of elements	No of cores in element	Cross section core, mm <sup>2</sup>	Conductor Diameter, mm	Insulation Thickness, mm	Thickness Inner covering, mm	Diameter inner covering, mm	Diameter Braid Wire, mm	Thickness Outer Sheath, mm	Diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)	Copper content Approx. (kg/km)
4	3	1.5	1.6	0.7	1.1	15.5 ± 0.8	0.3	1.4	19.5 ± 0.8	670	290
8	3	1.5	1.6	0.7	1.1	20.5 ± 1	0.3	1.7	25 ± 1	1150	515
12	3	1.5	1.6	0.7	1.3	24.5 ± 1	0.3	1.8	29 ± 1	1540	707
12	3	1.5	1.6	0.7	1.3	24.5 ± 1	0.3	1.8	29 ± 1	1540	707
16	3	1.5	1.6	0.7	1.4	26.5 ± 1	0.3	1.9	31.5 ± 1.5	1930	900
16	3	1.5	1.6	0.7	1.4	26.5 ± 1	0.3	1.9	31.5 ± 1.5	1930	900
24	3	1.5	1.6	0.7	1.8	33.5 ± 1.5	0.4	2.2	39.5 ± 1.5	2920	1364
24	3	1.5	1.6	0.7	1.8	33.5 ± 1.5	0.4	2.2	39.5 ± 1.5	2920	1364
4	2	2.5	2	0.7	1.1	16 ± 0.8	0.3	1.4	19.5 ± 0.8	680	308
4	2	2.5	2	0.7	1.1	16 ± 0.8	0.3	1.4	19.5 ± 0.8	680	308
5	2	2.5	2	0.7	1.1	17.5 ± 0.8	0.3	1.5	21.5 ± 1	810	370

#### Electrical values instrumentation cables

Type	Capacitance, approx. (nF/km)	Inductance, approx. (mH/km)	Resistance at 20°C, max. (Ohm/km)	L/R ratio, (microH/Ohm)
Unshielded pair 0,75 mm <sup>2</sup>	100	0,67	24,8	14,3
Unshielded triple 0,75 mm <sup>2</sup>	100	0,67	24,8	14,3
Unshielded pair 1,5 mm <sup>2</sup>	110	0,63	12,2	26,6
Unshielded triple 1,5 mm <sup>2</sup>	110	0,63	12,2	26,6
Unshielded pair 2,5 mm <sup>2</sup>	125	0,59	7,56	39,0
Unshielded triple 2,5 mm <sup>2</sup>	125	0,59	7,56	39,0

#### Ordering information

Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.
892606	RFOU(C) 2PAIR 0.75mm <sup>2</sup> S2/S6	GREY	Yes	7021528926064	1044421
892607	RFOU(C) 2PAIR 0.75mm <sup>2</sup> S2/S6	BLUE	Yes	7021528926071	1044422
892618	RFOU(C) 4PAIR 0.75mm <sup>2</sup> S2/S6	GREY	Yes	7021528926187	1044423
892619	RFOU(C) 4PAIR 0.75mm <sup>2</sup> S2/S6	BLUE	Yes	7021528926194	1044424
892630	RFOU(C) 8PAIR 0.75mm <sup>2</sup> S2/S6	GREY	Yes	7021528926309	1044428
892631	RFOU(C) 8PAIR 0.75mm <sup>2</sup> S2/S6	BLUE	Yes	7021528926316	1044429
892636	RFOU(C) 12PAIR 0.75mm <sup>2</sup> S2/S6	GREY	Yes	7021528926361	1044430
892637	RFOU(C) 12PAIR 0.75mm <sup>2</sup> S2/S6	BLUE	-	7021528926378	1044431
892642	RFOU(C) 16PAIR 0.75mm <sup>2</sup> S2/S6	GREY	Yes	7021528926422	1044433
892643	RFOU(C) 16PAIR 0.75mm <sup>2</sup> S2/S6	BLUE	Yes	7021528926439	1044432
892645	RFOU(C) 19PAIR 0.75mm <sup>2</sup> S2/S6	GREY	-	7021528926453	1044434
892648	RFOU(C) 24PAIR 0.75mm <sup>2</sup> S2/S6	GREY	Yes	7021528926484	1044438
892649	RFOU(C) 24PAIR 0.75mm <sup>2</sup> S2/S6	BLUE	Yes	7021528926491	1044437
892666	RFOU(C) 2TRIP 0.75mm <sup>2</sup> S2/S6	GREY	Yes	7021528926668	1044490
892667	RFOU(C) 2TRIP 0.75mm <sup>2</sup> S2/S6	BLUE	Yes	7021528926675	1044491
892678	RFOU(C) 4TRIP 0.75mm <sup>2</sup> S2/S6	GREY	-	7021528926781	1044492
892679	RFOU(C) 4TRIP 0.75mm <sup>2</sup> S2/S6	BLUE	-	7021528926798	1044493
892690	RFOU(C) 8TRIP 0.75mm <sup>2</sup> S2/S6	GREY	-	7021528926903	1044496
892691	RFOU(C) 8TRIP 0.75mm <sup>2</sup> S2/S6	BLUE	-	7021528926910	1044497
892696	RFOU(C) 12TRIP 0.75mm <sup>2</sup> S2/S6	GREY	-	7021528926965	1044499
892702	RFOU(C) 16TRIP 0.75mm <sup>2</sup> S2/S6	GREY	-	7021528927023	1044501
892708	RFOU(C) 24TRIP 0.75mm <sup>2</sup> S2/S6	GREY	-	7021528927085	1044507



Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.
892709	RFOU(C) 24TRIP 0.75mm <sup>2</sup> S2/S6	BLUE	-	7021528927092	1044508
892806	RFOU(C) 2PAIR 1.5mm <sup>2</sup> S2/S6	GREY	Yes	7021528928068	1044461
892807	RFOU(C) 2PAIR 1.5mm <sup>2</sup> S2/S6	BLUE	-	7021528928075	1044462
892818	RFOU(C) 4PAIR 1.5mm <sup>2</sup> S2/S6	GREY	Yes	7021528928181	1044463
892819	RFOU(C) 4PAIR 1.5mm <sup>2</sup> S2/S6	BLUE	-	7021528928198	1044464
892830	RFOU(C) 8PAIR 1.5mm <sup>2</sup> S2/S6	GREY	Yes	7021528928303	1044468
892831	RFOU(C) 8PAIR 1.5mm <sup>2</sup> S2/S6	BLUE	-	7021528928310	1044469
892834	RFOU(C) 10PAIR 1.5mm <sup>2</sup> S2/S6	GREY	-	7021528928341	-
892836	RFOU(C) 12PAIR 1.5mm <sup>2</sup> S2/S6	GREY	-	7021528928365	1044470
892842	RFOU(C) 16PAIR 1.5mm <sup>2</sup> S2/S6	GREY	Yes	7021528928426	1044472
892843	RFOU(C) 16PAIR 1.5mm <sup>2</sup> S2/S6	BLUE	-	7021528928433	1044473
892848	RFOU(C) 24PAIR 1.5mm <sup>2</sup> S2/S6	GREY	-	7021528928488	1044478
892854	RFOU(C) 32PAIR 1.5mm <sup>2</sup> S2/S6	GREY	-	7021528928549	-
892855	RFOU(C) 32PAIR 1.5mm <sup>2</sup> S2/S6	BLUE	-	7021528928556	-
892866	RFOU(C) 2TRIP 1.5mm <sup>2</sup> S2/S6	GREY	-	7021528928662	1044561
892878	RFOU(C) 4TRIP 1.5mm <sup>2</sup> S2/S6	GREY	-	7021528928785	1044563
892891	RFOU(C) 8TRIP 1.5mm <sup>2</sup> S2/S6	BLUE	-	7021528928914	-
892896	RFOU(C) 12TRIP 1.5mm <sup>2</sup> S2/S6	GREY	-	7021528928969	1044569
892897	RFOU(C) 12TRIP 1.5mm <sup>2</sup> S2/S6	BLUE	-	7021528928976	1044570
892902	RFOU(C) 16TRIP 1.5mm <sup>2</sup> S2/S6	GREY	-	7021528929027	1044571
892903	RFOU(C) 16TRIP 1.5mm <sup>2</sup> S2/S6	BLUE	-	7021528929034	1044572
892908	RFOU(C) 24TRIP 1.5mm <sup>2</sup> S2/S6	GREY	-	7021528929089	1044577
892909	RFOU(C) 24TRIP 1.5mm <sup>2</sup> S2/S6	BLUE	-	7021528929096	1044578
893018	RFOU(C) 4PAIR 2.5mm <sup>2</sup> S2/S6	GREY	-	7021528930184	-
893019	RFOU(C) 4PAIR 2.5mm <sup>2</sup> S2/S6	BLUE	-	7021528930191	-
893021	RFOU(C) 5PAIR 2.5mm <sup>2</sup> S2/S6	GREY	-	7021528930214	-

### Installation recommendations

Minimum Bending Radius during Installation	Minimum Bending Radius Fixed Installed	Maximum Tensile Load During Installation	Minimum Installation Temperature
8 x D	6 x D	50 N /mm <sup>2</sup>	-20°C

## Halogen-free, mud resistant, fire resistant instrumentation cable BFOU(i) 250V, S3/S7



Fire resistant, flame retardant halogen-free instrumentation cable. Mud resistant

### BFOU(i) 250V

MGT/EPR/EPR/TCWB/EVA

NEK 606 CodeS3/S7

Operating temperature : 90°C  
Operating Voltage : 250V

#### Application

Fixed installation for instrumentation, communication, control and alarm systems in both EX- and safe areas, emergency and critical systems where requirement for fire resistance exists. Meets the mud resistant requirements in NEK 606.

#### Standards applied

IEC 60092-376 (2003-05)	- Design
IEC 60228 class 2	- Conductor
IEC 60092-351	- Insulation
IEC 60092-359	- Sheath
IEC 60332-1	- Flame Retardant
IEC 60332-3-22	- Flame Retardant
IEC 60331-21	- Fire Resistant
IEC 600754-1,2	- Halogen Free
IEC 61034-1,2	- Low Smoke

#### Construction

	Code Letter	
<b>Conductor</b>		Tinned annealed stranded circular copper (STCC), IEC 60228 class 2
<b>Insulation</b>	<b>B</b>	Mica-tape + EP-rubber, IEC 60092-351 (EPR)
<b>Pair / Triple / Quad twisting</b>		Color coded cores twisted together. Pairs/Triples are screened by copper backed polyester tape with tinned copper drain wire. Each pair/triple is wrapped with polyester tape to prevent electrical contact with adjacent pairs/triples. Pairs/triples are identified by numbered tape or by numbers printed directly on the insulated conductors.
<b>Lay up / Shielding</b>		Individually shielded pairs/triples/quads are laid up in concentric layers and wrapped with a PETP tape.
<b>Inner covering</b>	<b>F</b>	Flame retardant and halogen-free thermoplastic compound
<b>Tape over inner covering</b>		PET tape
<b>Armour/screen</b>	<b>O</b>	Tinned annealed copper wire braid
<b>Tape over armour/screen</b>		PET tape
<b>Outer sheath</b>	<b>U</b>	Flame retardant, halogen-free and mud resistant thermoset compound, SHF2 (IEC 60092-359)
<b>Marking text</b>		Eg. "meter" "år" DRAKA NORSK KABEL BFOU(i) 250V S3/S7 16 PAIR 0,75 mm2 FLEX - FLAME IEC 60092-376 IEC 60331-21 IEC 60332-3-22 ETL Classified No. 3067229
<b>Outer sheath colour</b>		Grey or Blue

**Core identification instrumentation cables**

Pair	Black - Light Blue
Triple	Black - Light Blue - Brown
Quad	Black - Light Blue - Brown - Grey

**Range and dimensions**

Number of elements	No of cores in element	Cross section core, mm <sup>2</sup>	Conductor Diameter, mm	Insulation Thickness, mm	Thickness Inner covering, mm	Diameter inner covering, mm	Diameter Braid Wire, mm	Thickness Outer Sheath, mm	Diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)	Copper content Approx. (kg/km)
1	2	0.75	1.1	0.6	1.1	7.5 ± 0.5	0.2	1.1	10.5 ± 0.8	200	56
1	2	0.75	1.1	0.6	1.1	7.5 ± 0.5	0.2	1.1	10.5 ± 0.8	200	56
2	2	0.75	1.1	0.6	1.1	11 ± 0.8	0.3	1.3	14.5 ± 0.8	360	137
2	2	0.75	1.1	0.6	1.1	11 ± 0.8	0.3	1.3	14.5 ± 0.8	360	137
4	2	0.75	1.1	0.6	1.1	12.5 ± 0.8	0.3	1.4	16.5 ± 0.8	500	190
4	2	0.75	1.1	0.6	1.1	12.5 ± 0.8	0.3	1.4	16.5 ± 0.8	500	190
8	2	0.75	1.1	0.6	1.1	17 ± 0.8	0.3	1.6	21.5 ± 1	810	296
8	2	0.75	1.1	0.6	1.1	17 ± 0.8	0.3	1.6	21.5 ± 1	810	296
12	2	0.75	1.1	0.6	1.3	20.5 ± 1	0.3	1.7	25 ± 1	1070	394
12	2	0.75	1.1	0.6	1.3	20.5 ± 1	0.3	1.7	25 ± 1	1070	394
16	2	0.75	1.1	0.6	1.4	23 ± 1	0.3	1.8	27.5 ± 1	1330	492
16	2	0.75	1.1	0.6	1.4	23 ± 1	0.3	1.8	27.5 ± 1	1330	492
24	2	0.75	1.1	0.6	1.8	29 ± 1	0.4	2.1	34.5 ± 1.5	2020	749
24	2	0.75	1.1	0.6	1.8	29 ± 1	0.4	2.1	34.5 ± 1.5	2020	749
1	3	0.75	1.1	0.6	1.1	8 ± 0.5	0.2	1.1	11 ± 0.8	225	70
1	3	0.75	1.1	0.6	1.1	8 ± 0.5	0.2	1.1	11 ± 0.8	225	70
2	3	0.75	1.1	0.6	1.1	12 ± 0.8	0.3	1.4	15.5 ± 0.8	420	151
2	3	0.75	1.1	0.6	1.1	12 ± 0.8	0.3	1.4	15.5 ± 0.8	420	151
4	3	0.75	1.1	0.6	1.1	14 ± 0.8	0.3	1.4	17.5 ± 0.8	570	218
4	3	0.75	1.1	0.6	1.1	14 ± 0.8	0.3	1.4	17.5 ± 0.8	570	218
8	3	0.75	1.1	0.6	1.1	18.5 ± 0.8	0.3	1.7	23 ± 1	980	377
8	3	0.75	1.1	0.6	1.1	18.5 ± 0.8	0.3	1.7	23 ± 1	980	377
12	3	0.75	1.1	0.6	1.3	22.5 ± 1	0.3	1.8	27 ± 1	1310	504
12	3	0.75	1.1	0.6	1.3	22.5 ± 1	0.3	1.8	27 ± 1	1310	504
16	3	0.75	1.1	0.6	1.4	25.5 ± 1	0.3	1.9	30 ± 1.5	1650	630
24	3	0.75	1.1	0.6	1.8	31.5 ± 1.5	0.4	2.2	37.5 ± 1.5	2500	963
24	3	0.75	1.1	0.6	1.8	31.5 ± 1.5	0.4	2.2	37.5 ± 1.5	2500	963
1	2	1.5	1.6	0.7	1.1	9 ± 0.5	0.2	1.1	12 ± 0.8	255	79
1	2	1.5	1.6	0.7	1.1	9 ± 0.5	0.2	1.1	12 ± 0.8	255	79
2	2	1.5	1.6	0.7	1.1	13 ± 0.8	0.3	1.4	17 ± 0.8	480	185
2	2	1.5	1.6	0.7	1.1	13 ± 0.8	0.3	1.4	17 ± 0.8	480	185
4	2	1.5	1.6	0.7	1.1	15.5 ± 0.8	0.3	1.5	19.5 ± 0.8	670	270
4	2	1.5	1.6	0.7	1.1	15.5 ± 0.8	0.3	1.5	19.5 ± 0.8	670	270



Number of elements	No of cores in element	Cross section core, mm <sup>2</sup>	Conductor Diameter, mm	Insulation Thickness, mm	Thickness Inner covering, mm	Diameter inner covering, mm	Diameter Braid Wire, mm	Thickness Outer Sheath, mm	Diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)	Copper content Approx. (kg/km)
8	2	1.5	1.6	0.7	1.1	21 ± 1	0.3	1.7	25.5 ± 1	1120	449
8	2	1.5	1.6	0.7	1.1	21 ± 1	0.3	1.7	25.5 ± 1	1120	449
12	2	1.5	1.6	0.7	1.3	25 ± 1	0.3	1.9	30 ± 1.5	1530	611
12	2	1.5	1.6	0.7	1.3	25 ± 1	0.3	1.9	30 ± 1.5	1530	611
16	2	1.5	1.6	0.7	1.6	29 ± 1	0.3	2	34 ± 1.5	1970	773
16	2	1.5	1.6	0.7	1.6	29 ± 1	0.3	2	34 ± 1.5	1970	773
24	2	1.5	1.6	0.7	1.8	35.5 ± 1.5	0.4	2.3	42 ± 2	2970	1221
1	3	1.5	1.6	0.7	1.1	9.5 ± 0.5	0.2	1.2	12.5 ± 0.8	290	93
1	3	1.5	1.6	0.7	1.1	9.5 ± 0.5	0.2	1.2	12.5 ± 0.8	290	93
2	3	1.5	1.6	0.7	1.1	14.5 ± 0.8	0.3	1.5	18.5 ± 0.8	560	213
4	3	1.5	1.6	0.7	1.1	17 ± 0.8	0.3	1.6	21 ± 1	830	343
4	3	1.5	1.6	0.7	1.1	17 ± 0.8	0.3	1.6	21 ± 1	830	343
8	3	1.5	1.6	0.7	1.1	22.5 ± 1	0.3	1.8	27 ± 1	1390	586
8	3	1.5	1.6	0.7	1.1	22.5 ± 1	0.3	1.8	27 ± 1	1390	586
12	3	1.5	1.6	0.7	1.5	28.5 ± 1	0.3	2	33.5 ± 1.5	1970	806
12	3	1.5	1.6	0.7	1.5	28.5 ± 1	0.3	2	33.5 ± 1.5	1970	806
16	3	1.5	1.6	0.7	1.6	31.5 ± 1.5	0.4	2.2	37.5 ± 1.5	2680	1175
16	3	1.5	1.6	0.7	1.6	31.5 ± 1.5	0.4	2.2	37.5 ± 1.5	2680	1175
24	3	1.5	1.6	0.7	2	39.5 ± 1.5	0.4	2.5	46.5 ± 2	3830	1605
24	3	1.5	1.6	0.7	2	39.5 ± 1.5	0.4	2.5	46.5 ± 2	3830	1605
1	2	2.5	2	0.7	1.1	9.5 ± 0.5	0.2	1.2	13 ± 0.8	300	99
1	2	2.5	2	0.7	1.1	9.5 ± 0.5	0.2	1.2	13 ± 0.8	300	99
1	2	2.5	2	0.7	1.1	9.5 ± 0.5	0.2	1.2	13 ± 0.8	300	99
2	2	2.5	2	0.7	1.1	14.5 ± 0.8	0.3	1.5	18.5 ± 0.8	560	225
4	2	2.5	2	0.7	1.1	17 ± 0.8	0.3	1.6	21.5 ± 1	830	366
16	2	2.5	2	0.7	1.6	32 ± 1.5	0.4	2.2	38 ± 1.5	2630	1218
1	3	2.5	2	0.7	1.1	10.5 ± 0.8	0.2	1.2	13.5 ± 0.8	350	129
8	3	2.5	2	0.7	1.3	25.5 ± 1	0.3	2	30.5 ± 1.5	1820	841

**Electrical values instrumentation cables**

Type	Capacitance, approx. (nF/km)	Inductance, approx., (mH/km)	Resistance at 20°C, max. (Ohm/km)	L/R ratio, (microH/Ohm)
Shielded pair 0,75 mm <sup>2</sup>	110	0,67	24,8	14,3
Shielded triple 0,75 mm <sup>2</sup>	110	0,67	24,8	14,3
Shielded pair 1,5 mm <sup>2</sup>	125	0,63	12,2	26,6
Shielded triple 1,5 mm <sup>2</sup>	125	0,63	12,2	26,6
Shielded pair 2,5 mm <sup>2</sup>	145	0,59	7,56	39,0
Shielded triple 2,5 mm <sup>2</sup>	145	0,59	7,56	39,0

**Ordering information**

Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.
893200	BFOU(I) 1PAIR 0.75mm <sup>2</sup> S3/S7	GREY	Yes	7021528932003	1043820
893201	BFOU(I) 1PAIR 0.75mm <sup>2</sup> S3/S7	BLUE	Yes	7021528932010	1043819
893206	BFOU(I) 2PAIR 0.75mm <sup>2</sup> S3/S7	GREY	Yes	7021528932065	1044020
893207	BFOU(I) 2PAIR 0.75mm <sup>2</sup> S3/S7	BLUE	-	7021528932072	1044019
893218	BFOU(I) 4PAIR 0.75mm <sup>2</sup> S3/S7	GREY	Yes	7021528932188	1044021
893219	BFOU(I) 4PAIR 0.75mm <sup>2</sup> S3/S7	BLUE	-	7021528932195	1044022
893230	BFOU(I) 8PAIR 0.75mm <sup>2</sup> S3/S7	GREY	Yes	7021528932300	1044028
893231	BFOU(I) 8PAIR 0.75mm <sup>2</sup> S3/S7	BLUE	-	7021528932317	1044029
893236	BFOU(I) 12PAIR 0.75mm <sup>2</sup> S3/S7	GREY	-	7021528932362	1044030
893237	BFOU(I) 12PAIR 0.75mm <sup>2</sup> S3/S7	BLUE	-	7021528932379	1044031
893242	BFOU(I) 16PAIR 0.75mm <sup>2</sup> S3/S7	GREY	Yes	7021528932423	1044033
893243	BFOU(I) 16PAIR 0.75mm <sup>2</sup> S3/S7	BLUE	-	7021528932430	1044034
893248	BFOU(I) 24PAIR 0.75mm <sup>2</sup> S3/S7	GREY	-	7021528932485	1044036
893249	BFOU(I) 24PAIR 0.75mm <sup>2</sup> S3/S7	BLUE	-	7021528932492	1044037
893260	BFOU(I) 1TRIP 0.75mm <sup>2</sup> S3/S7	GREY	Yes	7021528932607	1043920
893261	BFOU(I) 1TRIP 0.75mm <sup>2</sup> S3/S7	BLUE	Yes	7021528932614	1043919
893266	BFOU(I) 2TRIP 0.75mm <sup>2</sup> S3/S7	GREY	-	7021528932669	1044121
893267	BFOU(I) 2TRIP 0.75mm <sup>2</sup> S3/S7	BLUE	-	7021528932676	1044122
893278	BFOU(I) 4TRIP 0.75mm <sup>2</sup> S3/S7	GREY	-	7021528932782	1044123
893279	BFOU(I) 4TRIP 0.75mm <sup>2</sup> S3/S7	BLUE	-	7021528932799	1044124
893290	BFOU(I) 8TRIP 0.75mm <sup>2</sup> S3/S7	GREY	Yes	7021528932904	1044128
893291	BFOU(I) 8TRIP 0.75mm <sup>2</sup> S3/S7	BLUE	-	7021528932911	1044129
893296	BFOU(I) 12TRIP 0.75mm <sup>2</sup> S3/S7	GREY	-	7021528932966	1044130
893297	BFOU(I) 12TRIP 0.75mm <sup>2</sup> S3/S7	BLUE	-	7021528932973	1044131
893302	BFOU(I) 16TRIP 0.75mm <sup>2</sup> S3/S7	GREY	-	7021528933024	1044132
893308	BFOU(I) 24TRIP 0.75mm <sup>2</sup> S3/S7	GREY	-	7021528933086	1044138
893309	BFOU(I) 24TRIP 0.75mm <sup>2</sup> S3/S7	BLUE	-	7021528933093	1044139
893400	BFOU(I) 1PAIR 1.5mm <sup>2</sup> S3/S7	GREY	Yes	7021528934007	1043860
893401	BFOU(I) 1PAIR 1.5mm <sup>2</sup> S3/S7	BLUE	Yes	7021528934014	1043859
893406	BFOU(I) 2PAIR 1.5mm <sup>2</sup> S3/S7	GREY	Yes	7021528934069	1044060
893407	BFOU(I) 2PAIR 1.5mm <sup>2</sup> S3/S7	BLUE	-	7021528934076	1044061
893418	BFOU(I) 4PAIR 1.5mm <sup>2</sup> S3/S7	GREY	Yes	7021528934182	1044063
893419	BFOU(I) 4PAIR 1.5mm <sup>2</sup> S3/S7	BLUE	-	7021528934199	1044064
893430	BFOU(I) 8PAIR 1.5mm <sup>2</sup> S3/S7	GREY	Yes	7021528934304	1044068
893431	BFOU(I) 8PAIR 1.5mm <sup>2</sup> S3/S7	BLUE	-	7021528934311	1044069
893436	BFOU(I) 12PAIR 1.5mm <sup>2</sup> S3/S7	GREY	Yes	7021528934366	1044070
893437	BFOU(I) 12PAIR 1.5mm <sup>2</sup> S3/S7	BLUE	-	7021528934373	1044071
893442	BFOU(I) 16PAIR 1.5mm <sup>2</sup> S3/S7	GREY	Yes	7021528934427	1044073
893443	BFOU(I) 16PAIR 1.5mm <sup>2</sup> S3/S7	BLUE	-	7021528934434	1044074
893448	BFOU(I) 24PAIR 1.5mm <sup>2</sup> S3/S7	GREY	-	7021528934489	1044076
893460	BFOU(I) 1TRIP 1.5mm <sup>2</sup> S3/S7	GREY	Yes	7021528934601	1044170
893461	BFOU(I) 1TRIP 1.5mm <sup>2</sup> S3/S7	BLUE	Yes	7021528934618	1044169
893466	BFOU(I) 2TRIP 1.5mm <sup>2</sup> S3/S7	GREY	-	7021528934663	1044171
893478	BFOU(I) 4TRIP 1.5mm <sup>2</sup> S3/S7	GREY	-	7021528934786	1044173
893479	BFOU(I) 4TRIP 1.5mm <sup>2</sup> S3/S7	BLUE	-	7021528934793	1044174



Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.
893490	BFOU(I) 8TRIP 1.5mm <sup>2</sup> S3/S7	GREY	-	7021528934908	1044177
893491	BFOU(I) 8TRIP 1.5mm <sup>2</sup> S3/S7	BLUE	-	7021528934915	1044178
893496	BFOU(I) 12TRIP 1.5mm <sup>2</sup> S3/S7	GREY	-	7021528934960	1044179
893497	BFOU(I) 12TRIP 1.5mm <sup>2</sup> S3/S7	BLUE	-	7021528934977	1044180
893502	BFOU(I) 16TRIP 1.5mm <sup>2</sup> S3/S7	GREY	-	7021528935028	1044181
893503	BFOU(I) 16TRIP 1.5mm <sup>2</sup> S3/S7	BLUE	-	7021528935035	1044182
893508	BFOU(I) 24TRIP 1.5mm <sup>2</sup> S3/S7	GREY	-	7021528935080	1044193
893509	BFOU(I) 24TRIP 1.5mm <sup>2</sup> S3/S7	BLUE	-	7021528935097	1044194
893600	BFOU(I) 1PAIR 2.5mm <sup>2</sup> S3/S7	GREY	Yes	7021528936001	1044140
893601	BFOU(I) 1PAIR 2.5mm <sup>2</sup> S3/S7	BLUE	-	7021528936018	-
893602	BFOU(I) 1PAIR 2.5mm <sup>2</sup>	BLACK	-	7021528936025	-
893606	BFOU(I) 2PAIR 2.5mm <sup>2</sup> S3/S7	GREY	-	7021528936063	-
893618	BFOU(I) 4PAIR 2.5mm <sup>2</sup> S3/S7	GREY	-	7021528936186	-
893642	BFOU(I) 16PAIR 2.5mm <sup>2</sup> S3/S7	GREY	-	7021528936421	-
893660	BFOU(I) 1TRIP 2.5mm <sup>2</sup> S3/S7	GREY	-	7021528936605	-
893690	BFOU(I) 8TRIP 2.5mm <sup>2</sup> S3/S7	GREY	-	7021528936902	-

### Installation recommendations

Minimum Bending Radius during Installation	Minimum Bending Radius Fixed Installed	Maximum Tensile Load During Installation	Minimum Installation Temperature
8 x D	6 x D	50 N /mm <sup>2</sup>	-20°C

## Halogen-free, mud resistant, fire resistant instrumentation cable BFOU(c) 250V, S4/S8

Fire resistant, flame retardant halogen-free instrumentation cable. Mud resistant

### BFOU(c) 250V

MGT/EPR/EPR/TCWB/EVA

NEK 606 CodeS4/S8



Operating temperature : 90°C  
Operating Voltage : 250V

#### Application

Fixed installation for instrumentation, communication, control and alarm systems in both EX- and safe areas, emergency and critical systems where requirement for fire resistance exists. Meets the mud resistant requirements in NEK 606.

#### Standards applied

IEC 60092-376 (2003-05)	- Design
IEC 60228 class 2	- Conductor
IEC 60092-351	- Insulation
IEC 60092-359	- Sheath
IEC 60332-1	- Flame Retardant
IEC 60332-3-22	- Flame Retardant
IEC 60331-21	- Fire Resistant
IEC 600754-1,2	- Halogen Free
IEC 61034-1,2	- Low Smoke

#### Construction

	Code Letter	
<b>Conductor</b>		Tinned annealed stranded circular copper (STCC), IEC 60228 class 2
<b>Insulation</b>	<b>B</b>	Mica-tape + EP-rubber, IEC 60092-351 (EPR)
<b>Pair / Triple / Quad twisting</b>		Color coded cores twisted together and wrapped with polyester tape. Pairs/Triples are laid up collectively and screened by copper backed polyester tape with tinned copper drain wire. Pairs/triples are identified by numbered tape or by numbers printed directly on the insulated conductors.
<b>Inner covering</b>	<b>F</b>	Flame retardant and halogen-free thermoplastic compound
<b>Tape over inner covering</b>		PET tape
<b>Armour/screen</b>	<b>O</b>	Tinned annealed copper wire braid
<b>Tape over armour/screen</b>		PET tape
<b>Outer sheath</b>	<b>U</b>	Flame retardant, halogen-free and mud resistant thermoset compound, SHF2 (IEC 60092-359)
<b>Marking text</b>		Eg. "meter" "år" DRAKA NORSK KABEL BFOU(c) 250V S4/S8 4 PAIR 0,75 mm <sup>2</sup> FLEX - FLAME IEC 60092-376 IEC 60331-21 IEC 60332-3-22 ETL Classified No. 3067229
<b>Outer sheath colour</b>		Grey or Blue

#### Core identification instrumentation cables

Pair Black - Light Blue  
Triple Black - Light Blue - Brown

Quad

Black - Light Blue - Brown - Grey

**Range and dimensions**

Number of elements	No of cores in element	Cross section core, mm <sup>2</sup>	Conductor Diameter, mm	Insulation Thickness, mm	Thickness Inner covering, mm	Diameter inner covering, mm	Diameter Braid Wire, mm	Thickness Outer Sheath, mm	Diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)	Copper content Approx. (kg/km)
2	2	0.75	1.1	0.6	1.1	10.5 ± 0.8	0.3	1.3	14.5 ± 0.8	340	116
2	2	0.75	1.1	0.6	1.1	10.5 ± 0.8	0.3	1.3	14.5 ± 0.8	340	116
4	2	0.75	1.1	0.6	1.1	12.5 ± 0.8	0.3	1.4	16 ± 0.8	450	160
4	2	0.75	1.1	0.6	1.1	12.5 ± 0.8	0.3	1.4	16 ± 0.8	450	160
8	2	0.75	1.1	0.6	1.1	17 ± 0.8	0.3	1.5	21 ± 1	710	249
8	2	0.75	1.1	0.6	1.1	17 ± 0.8	0.3	1.5	21 ± 1	710	249
12	2	0.75	1.1	0.6	1.3	19.5 ± 0.8	0.3	1.6	23.5 ± 1	930	346
12	2	0.75	1.1	0.6	1.3	19.5 ± 0.8	0.3	1.6	23.5 ± 1	930	346
16	2	0.75	1.1	0.6	1.4	21 ± 1	0.3	1.7	25.5 ± 1	1110	402
16	2	0.75	1.1	0.6	1.4	21 ± 1	0.3	1.7	25.5 ± 1	1110	402
19	2	0.75	1.1	0.6	1.4	22 ± 1	0.3	1.8	27 ± 1	1260	468
24	2	0.75	1.1	0.6	1.8	26.5 ± 1	0.3	2	31.5 ± 1.5	1610	563
24	2	0.75	1.1	0.6	1.8	26.5 ± 1	0.3	2	31.5 ± 1.5	1610	563
2	3	0.75	1.1	0.6	1.1	12 ± 0.8	0.3	1.3	15.5 ± 0.8	410	146
2	3	0.75	1.1	0.6	1.1	12 ± 0.8	0.3	1.3	15.5 ± 0.8	410	146
4	3	0.75	1.1	0.6	1.1	14 ± 0.8	0.3	1.4	18 ± 0.8	550	205
4	3	0.75	1.1	0.6	1.1	14 ± 0.8	0.3	1.4	18 ± 0.8	550	205
8	3	0.75	1.1	0.6	1.1	18.5 ± 0.8	0.3	1.6	23 ± 1	880	322
12	3	0.75	1.1	0.6	1.3	22 ± 1	0.3	1.8	26.5 ± 1	1180	431
12	3	0.75	1.1	0.6	1.3	22 ± 1	0.3	1.8	26.5 ± 1	1180	431
16	3	0.75	1.1	0.6	1.4	24 ± 1	0.3	1.9	29 ± 1	1460	540
16	3	0.75	1.1	0.6	1.4	24 ± 1	0.3	1.9	29 ± 1	1460	540
24	3	0.75	1.1	0.6	1.8	30 ± 1.5	0.4	2.1	35.5 ± 1.5	2210	862
2	2	1.5	1.6	0.7	1.1	13 ± 0.8	0.3	1.4	16.5 ± 0.8	450	162
2	2	1.5	1.6	0.7	1.1	13 ± 0.8	0.3	1.4	16.5 ± 0.8	450	162
4	2	1.5	1.6	0.7	1.1	15 ± 0.8	0.3	1.4	19 ± 0.8	600	234
4	2	1.5	1.6	0.7	1.1	15 ± 0.8	0.3	1.4	19 ± 0.8	600	234
8	2	1.5	1.6	0.7	1.1	20.5 ± 1	0.3	1.7	25 ± 1	1020	403
8	2	1.5	1.6	0.7	1.1	20.5 ± 1	0.3	1.7	25 ± 1	1020	403
12	2	1.5	1.6	0.7	1.3	23.5 ± 1	0.3	1.8	28.5 ± 1	1340	539
12	2	1.5	1.6	0.7	1.3	23.5 ± 1	0.3	1.8	28.5 ± 1	1340	539
16	2	1.5	1.6	0.7	1.4	26 ± 1	0.3	1.9	30.5 ± 1.5	1650	675
16	2	1.5	1.6	0.7	1.4	26 ± 1	0.3	1.9	30.5 ± 1.5	1650	675
24	2	1.5	1.6	0.7	1.8	32 ± 1.5	0.4	2.2	38.5 ± 1.5	2510	1026
24	2	1.5	1.6	0.7	1.8	32 ± 1.5	0.4	2.2	38.5 ± 1.5	2510	1026
2	3	1.5	1.6	0.7	1.1	14.5 ±	0.3	1.4	18.5 ±	540	207

Number of elements	No of cores in element	Cross section core, mm <sup>2</sup>	Conductor Diameter, mm	Insulation Thickness, mm	Thickness Inner covering, mm	Diameter inner covering, mm	Diameter Braid Wire, mm	Thickness Outer Sheath, mm	Diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)	Copper content Approx. (kg/km)
2	3	1.5	1.6	0.7	1.1	0.8 14.5 ± 0.8	0.3	1.4	0.8 18.5 ± 0.8	540	207
4	3	1.5	1.6	0.7	1.1	17 ± 0.8	0.3	1.5	21 ± 1	760	307
4	3	1.5	1.6	0.7	1.1	17 ± 0.8	0.3	1.5	21 ± 1	760	307
8	3	1.5	1.6	0.7	1.1	22.5 ± 1	0.3	1.8	27 ± 1	1280	515
8	3	1.5	1.6	0.7	1.1	22.5 ± 1	0.3	1.8	27 ± 1	1280	515
12	3	1.5	1.6	0.7	1.3	27 ± 1	0.3	1.9	32 ± 1.5	1750	733
16	3	1.5	1.6	0.7	1.6	30 ± 1.5	0.4	2.1	35.5 ± 1.5	2370	1030
24	3	1.5	1.6	0.7	2	37 ± 1.5	0.4	2.4	43.5 ± 2	3390	1412
2	2	2.5	2	0.7	1.1	14 ± 0.8	0.3	1.4	18 ± 0.8	530	216
4	2	2.5	2	0.7	1.1	16.5 ± 0.8	0.3	1.5	20.5 ± 1	740	324
8	2	2.5	2	0.7	1.1	22.5 ± 1	0.3	1.8	27 ± 1	1250	549
16	2	2.5	2	0.7	1.6	29 ± 1	0.4	2.1	35 ± 1.5	2230	1050
24	2	2.5	2	0.7	2	36 ± 1.5	0.4	2.4	42.5 ± 2	3270	1504
8	3	2.5	2	0.7	1.1	25 ± 1	0.3	1.9	30 ± 1.5	1620	759
16	3	2.5	2	0.7	1.6	33 ± 1.5	0.4	2.3	39.5 ± 1.5	2990	1466

#### Electrical values instrumentation cables

Type	Capacitance, approx. (nF/km)	Inductance, approx. (mH/km)	Resistance at 20°C, max. (Ohm/km)	L/R ratio, (microH/Ohm)
Unshielded pair 0,75 mm <sup>2</sup>	100	0,67	24,8	14,3
Unshielded triple 0,75 mm <sup>2</sup>	100	0,67	24,8	14,3
Unshielded pair 1,5 mm <sup>2</sup>	110	0,63	12,2	26,6
Unshielded triple 1,5 mm <sup>2</sup>	110	0,63	12,2	26,6
Unshielded pair 2,5 mm <sup>2</sup>	125	0,59	7,56	39,0
Unshielded triple 2,5 mm <sup>2</sup>	125	0,59	7,56	39,0

#### Ordering information

Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.
893806	BFOU(C) 2PAIR 0.75mm <sup>2</sup> S4/S8	GREY	Yes	7021528938067	1043821
893807	BFOU(C) 2PAIR 0.75mm <sup>2</sup> S4/S8	BLUE	Yes	7021528938074	1043822
893818	BFOU(C) 4PAIR 0.75mm <sup>2</sup> S4/S8	GREY	Yes	7021528938180	1043823
893819	BFOU(C) 4PAIR 0.75mm <sup>2</sup> S4/S8	BLUE	Yes	7021528938197	1043824
893830	BFOU(C) 8PAIR 0.75mm <sup>2</sup> S4/S8	GREY	Yes	7021528938302	1043828
893831	BFOU(C) 8PAIR 0.75mm <sup>2</sup> S4/S8	BLUE	Yes	7021528938319	1043829
893836	BFOU(C) 12PAIR 0.75mm <sup>2</sup> S4/S8	GREY	Yes	7021528938364	1043830
893837	BFOU(C) 12PAIR 0.75mm <sup>2</sup> S4/S8	BLUE	-	7021528938371	1043831
893842	BFOU(C) 16PAIR 0.75mm <sup>2</sup> S4/S8	GREY	Yes	7021528938425	1043833
893843	BFOU(C) 16PAIR 0.75mm <sup>2</sup> S4/S8	BLUE	Yes	7021528938432	1043834
893845	BFOU(C) 19PAIR 0.75mm <sup>2</sup> S4/S8	GREY	-	7021528938456	-
893848	BFOU(C) 24PAIR 0.75mm <sup>2</sup> S4/S8	GREY	Yes	7021528938487	1043836
893849	BFOU(C) 24PAIR 0.75mm <sup>2</sup> S4/S8	BLUE	Yes	7021528938494	1043837
893866	BFOU(C) 2TRIP 0.75mm <sup>2</sup> S4/S8	GREY	Yes	7021528938661	1043921
893867	BFOU(C) 2TRIP 0.75mm <sup>2</sup> S4/S8	BLUE	Yes	7021528938678	1043922
893878	BFOU(C) 4TRIP 0.75mm <sup>2</sup> S4/S8	GREY	Yes	7021528938784	1043923
893879	BFOU(C) 4TRIP 0.75mm <sup>2</sup> S4/S8	BLUE	-	7021528938791	1043924
893890	BFOU(C) 8TRIP 0.75mm <sup>2</sup> S4/S8	GREY	-	7021528938906	1043928
893896	BFOU(C) 12TRIP 0.75mm <sup>2</sup> S4/S8	GREY	-	7021528938968	1043930
893897	BFOU(C) 12TRIP 0.75mm <sup>2</sup> S4/S8	BLUE	-	7021528938975	1043931
893902	BFOU(C) 16TRIP 0.75mm <sup>2</sup> S4/S8	GREY	Yes	7021528939026	1043933

Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.
893903	BFOU(C) 16TRIP 0.75mm <sup>2</sup> S4/S8	BLUE	-	7021528939033	1043934
893908	BFOU(C) 24TRIP 0.75mm <sup>2</sup> S4/S8	GREY	-	7021528939088	1043936
894006	BFOU(C) 2PAIR 1.5mm <sup>2</sup> S4/S8	GREY	Yes	7021528940060	1043862
894007	BFOU(C) 2PAIR 1.5mm <sup>2</sup> S4/S8	BLUE	-	7021528940077	1043861
894018	BFOU(C) 4PAIR 1.5mm <sup>2</sup> S4/S8	GREY	Yes	7021528940183	1043863
894019	BFOU(C) 4PAIR 1.5mm <sup>2</sup> S4/S8	BLUE	-	7021528940190	1043864
894030	BFOU(C) 8PAIR 1.5mm <sup>2</sup> S4/S8	GREY	Yes	7021528940305	1043868
894031	BFOU(C) 8PAIR 1.5mm <sup>2</sup> S4/S8	BLUE	-	7021528940312	1043869
894036	BFOU(C) 12PAIR 1.5mm <sup>2</sup> S4/S8	GREY	Yes	7021528940367	1043870
894037	BFOU(C) 12PAIR 1.5mm <sup>2</sup> S4/S8	BLUE	-	7021528940374	1043871
894042	BFOU(C) 16PAIR 1.5mm <sup>2</sup> S4/S8	GREY	Yes	7021528940428	1043873
894043	BFOU(C) 16PAIR 1.5mm <sup>2</sup> S4/S8	BLUE	-	7021528940435	1043874
894048	BFOU(C) 24PAIR 1.5mm <sup>2</sup> S4/S8	GREY	Yes	7021528940480	1043876
894049	BFOU(C) 24PAIR 1.5mm <sup>2</sup> S4/S8	BLUE	-	7021528940497	1043877
894066	BFOU(C) 2TRIP 1.5mm <sup>2</sup> S4/S8	GREY	Yes	7021528940664	1043971
894067	BFOU(C) 2TRIP 1.5mm <sup>2</sup> S4/S8	BLUE	Yes	7021528940671	1043972
894078	BFOU(C) 4TRIP 1.5mm <sup>2</sup> S4/S8	GREY	-	7021528940787	1043973
894079	BFOU(C) 4TRIP 1.5mm <sup>2</sup> S4/S8	BLUE	-	7021528940794	1043974
894090	BFOU(C) 8TRIP 1.5mm <sup>2</sup> S4/S8	GREY	Yes	7021528940909	1043977
894091	BFOU(C) 8TRIP 1.5mm <sup>2</sup> S4/S8	BLUE	-	7021528940916	1043978
894096	BFOU(C) 12TRIP 1.5mm <sup>2</sup> S4/S8	GREY	-	7021528940961	1043979
894102	BFOU(C) 16TRIP 1.5mm <sup>2</sup> S4/S8	GREY	-	7021528941029	1043981
894108	BFOU(C) 24TRIP 1.5mm <sup>2</sup> S4/S8	GREY	-	7021528941081	1043987
894206	BFOU(C) 2PAIR 2.5mm <sup>2</sup> S4/S8	GREY	-	7021528942064	-
894218	BFOU(C) 4PAIR 2.5mm <sup>2</sup> S4/S8	GREY	-	7021528942187	-
894230	BFOU(C) 8PAIR 2.5mm <sup>2</sup> S4/S8	GREY	-	7021528942309	-
894242	BFOU(C) 16PAIR 2.5mm <sup>2</sup> S4/S8	GREY	-	7021528942422	-
894248	BFOU(C) 24PAIR 2.5mm <sup>2</sup> S4/S8	GREY	-	7021528942484	-
894290	BFOU(C) 8TRIP 2.5mm <sup>2</sup> S4/S8	GREY	-	7021528942903	-
894302	BFOU(C) 16TRIP 2.5mm <sup>2</sup> S4/S8	GREY	-	7021528943023	-

#### Installation recommendations

Minimum Bending Radius during Installation	Minimum Bending Radius Fixed Installed	Maximum Tensile Load During Installation	Minimum Installation Temperature
8 x D	6 x D	50 N /mm <sup>2</sup>	-20°C



## Halogen-free, unarmoured mud resistant instrumentation cable RU(i) 250V, S11

Flame retardant halogen-free instrumentation cable. Mud resistant

# RU(i) 250V

EPR/EVA

NEK 606 CodeS11



Operating temperature : 90°C  
Operating Voltage : 250V

### Application

Fixed installation for instrumentation, communication, Control and alarm systems in both EX- (Zone 2) and safe areas. Meets the mud resistant requirements in NEK 606.

### Standards applied

IEC 60092-376 (2003-05)	- Design
IEC 60228 class 2	- Conductor
IEC 60092-351	- Insulation
IEC 60092-359	- Sheath
IEC 60332-1	- Flame Retardant
IEC 60332-3-22	- Flame Retardant
IEC 600754-1,2	- Halogen Free
IEC 61034-1,2	- Low Smoke

### Construction

	Code Letter	
<b>Conductor</b>		Tinned annealed stranded circular copper (STCC), IEC 60228 class 2
<b>Insulation</b>	<b>R</b>	EP-rubber, IEC 60092-351 (EPR)
<b>Pair / Triple / Quad twisting</b>		Color coded cores twisted together. Pairs/Triples are screened by copper backed polyester tape with tinned copper drain wire. Each pair/triple is wrapped with polyester tape to prevent electrical contact with adjacent pairs/triples. Pairs/triples are identified by numbers printed directly on the insulated conductors.
<b>Lay up / Shielding</b>		Individually shielded pairs/triples/quads are laid up in concentric layers and wrapped with a PETP tape.
<b>Inner covering</b>		No inner covering. (Additional tapes may be applied)
<b>Armour/screen</b>		No armour.
<b>Outer sheath</b>	<b>U</b>	Flame retardant, halogen-free and mud resistant thermoset compound, SHF2 (IEC 60092-359)
<b>Marking text</b>		E.g. "meter" "year" DRAKA NORSK KABEL RU(i) 250V S11 2 pair 0,75 mm <sup>2</sup> IEC 60092-376 IEC 60332-3-22
<b>Outer sheath colour</b>		Grey or Blue

**Core identification instrumentation cables**

Pair	Black - Light Blue
Triple	Black - Light Blue - Brown
Quad	Black - Light Blue - Brown - Grey

**Range and dimensions**

Number of elements	No of cores in element	Cross section core, mm <sup>2</sup>	Conductor Diameter, mm	Insulation Thickness, mm	Thickness Outer Sheath, mm	Diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)	Copper content Approx. (kg/km)
1	2	0.75	1.1	0.6	1	6.5 ± 0.5	85	18.5
1	2	0.75	1.1	0.6	1	6.5 ± 0.5	85	18.5
2	2	0.75	1.1	0.6	1.1	10 ± 0.8	145	37
2	2	0.75	1.1	0.6	1.1	10 ± 0.8	145	37
4	2	0.75	1.1	0.6	1.2	11.5 ± 0.8	240	74
8	2	0.75	1.1	0.6	1.3	16 ± 0.8	450	147
12	2	0.75	1.1	0.6	1.5	19 ± 0.8	630	220
16	2	0.75	1.1	0.6	1.5	21 ± 1	790	293
24	2	0.75	1.1	0.6	1.7	25.5 ± 1	1160	439
1	3	0.75	1.1	0.6	1	7 ± 0.5	100	26
2	3	0.75	1.1	0.6	1.2	11 ± 0.8	185	51
4	3	0.75	1.1	0.6	1.2	13 ± 0.8	300	102
8	3	0.75	1.1	0.6	1.4	17.5 ± 0.8	580	203
12	3	0.75	1.1	0.6	1.6	21.5 ± 1	810	305
16	3	0.75	1.1	0.6	1.6	23.5 ± 1	1030	406
24	3	0.75	1.1	0.6	1.9	29.5 ± 1	1540	609
1	2	1.5	1.6	0.7	1	8 ± 0.5	120	35
1	2	1.5	1.6	0.7	1	8 ± 0.5	120	35
2	2	1.5	1.6	0.7	1.2	12 ± 0.8	220	69
2	2	1.5	1.6	0.7	1.2	12 ± 0.8	220	69
4	2	1.5	1.6	0.7	1.3	14.5 ± 0.8	370	137
8	2	1.5	1.6	0.7	1.5	19.5 ± 0.8	710	274
12	2	1.5	1.6	0.7	1.6	23.5 ± 1	980	411
16	2	1.5	1.6	0.7	1.7	26.5 ± 1	1270	548
24	2	1.5	1.6	0.7	2	32.5 ± 1.5	1900	822
1	3	1.5	1.6	0.7	1	8.5 ± 0.5	140	49
2	3	1.5	1.6	0.7	1.3	14 ± 0.8	285	97
4	3	1.5	1.6	0.7	1.3	16 ± 0.8	470	194
8	3	1.5	1.6	0.7	1.6	22 ± 1	920	387
16	3	1.5	1.6	0.7	1.9	30 ± 1.5	1710	774
24	3	1.5	1.6	0.7	2.2	37 ± 1.5	2540	1161

**Electrical values instrumentation cables**

Type	Capacitance, approx. (nF/km)	Inductance, approx. (mH/km)	Resistance at 20°C, max. (Ohm/km)	L/R ratio, (microH/Ohm)
Shielded pair 0,75 mm <sup>2</sup>	110	0,67	24,8	14,3
Shielded triple 0,75 mm <sup>2</sup>	110	0,67	24,8	14,3
Shielded pair 1,5 mm <sup>2</sup>	125	0,63	12,2	26,6
Shielded triple 1,5 mm <sup>2</sup>	125	0,63	12,2	26,6
Shielded pair 2,5 mm <sup>2</sup>	145	0,59	7,56	39,0
Shielded triple 2,5 mm <sup>2</sup>	145	0,59	7,56	39,0

**Ordering information**

Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.
895000	RU(I) 250V 1PAIR 0.75mm <sup>2</sup> S11	GREY	-	7021528950007	-
895001	RU(I) 250V 1PAIR 0.75mm <sup>2</sup> S11	BLUE	-	7021528950014	-
895006	RU(I) 250V 2PAIR 0.75mm <sup>2</sup> S11	GREY	-	7021528950069	-
895007	RU(I) 250V 2PAIR 0.75mm <sup>2</sup> S11	BLUE	-	7021528950076	-
895018	RU(I) 250V 4PAIR 0.75mm <sup>2</sup> S11	GREY	-	7021528950182	-
895030	RU(I) 250V 8PAIR 0.75mm <sup>2</sup> S11	GREY	-	7021528950304	-
895036	RU(I) 250V 12PAIR 0.75mm <sup>2</sup> S11	GREY	-	7021528950366	-
895042	RU(I) 250V 16PAIR 0.75mm <sup>2</sup> S11	GREY	-	7021528950427	-
895048	RU(I) 250V 24PAIR 0.75mm <sup>2</sup> S11	GREY	-	7021528950489	-
895060	RU(I) 250V 1TRIP 0.75mm <sup>2</sup> S11	GREY	-	7021528950601	-
895066	RU(I) 250V 2TRIP 0.75mm <sup>2</sup> S11	GREY	-	7021528950663	-
895078	RU(I) 250V 4TRIP 0.75mm <sup>2</sup> S11	GREY	-	7021528950786	-
895090	RU(I) 250V 8TRIP 0.75mm <sup>2</sup> S11	GREY	-	7021528950908	-
895096	RU(I) 250V 12TRIP 0.75mm <sup>2</sup> S11	GREY	-	7021528950960	-
895102	RU(I) 250V 16TRIP 0.75mm <sup>2</sup> S11	GREY	-	7021528951028	-
895108	RU(I) 250V 24TRIP 0.75mm <sup>2</sup> S11	GREY	-	7021528951080	-
895200	RU(I) 250V 1PAIR 1.5mm <sup>2</sup> S11	GREY	-	7021528952001	-
895201	RU(I) 250V 1PAIR 1.5mm <sup>2</sup> S11	BLUE	-	7021528952018	-
895206	RU(I) 250V 2PAIR 1.5mm <sup>2</sup> S11	GREY	-	7021528952063	-
895207	RU(I) 250V 2PAIR 1.5mm <sup>2</sup> S11	BLUE	-	7021528952070	-
895218	RU(I) 250V 4PAIR 1.5mm <sup>2</sup> S11	GREY	-	7021528952186	-
895230	RU(I) 250V 8PAIR 1.5mm <sup>2</sup> S11	GREY	-	7021528952308	-
895236	RU(I) 250V 12PAIR 1.5mm <sup>2</sup> S11	GREY	-	7021528952360	-
895242	RU(I) 250V 16PAIR 1.5mm <sup>2</sup> S11	GREY	-	7021528952421	-
895248	RU(I) 250V 24PAIR 1.5mm <sup>2</sup> S11	GREY	-	7021528952483	-
895260	RU(I) 250V 1TRIP 1.5mm <sup>2</sup> S11	GREY	-	7021528952605	-
895266	RU(I) 250V 2TRIP 1.5mm <sup>2</sup> S11	GREY	-	7021528952667	-
895278	RU(I) 250V 4TRIP 1.5mm <sup>2</sup> S11	GREY	-	7021528952780	-
895290	RU(I) 250V 8TRIP 1.5mm <sup>2</sup> S11	GREY	-	7021528952902	-
895302	RU(I) 250V 16TRIP 1.5mm <sup>2</sup> S11	GREY	-	7021528953022	-
895308	RU(I) 250V 24TRIP 1.5mm <sup>2</sup> S11	GREY	-	7021528953084	-

**Installation recommendations**

Minimum Bending Radius during Installation	Minimum Bending Radius Fixed Installed	Maximum Tensile Load During Installation	Minimum Installation Temperature
8 x D	6 x D	50 N /mm <sup>2</sup>	-20°C

**Halogen-free, unarmoured mud resistant instrumentation cable RU(c) 250V, S12**

Flame retardant halogen-free instrumentation cable. Mud resistant

**RU(c) 250V**

EPR/EVA

NEK 606 CodeS12



**Operating temperature** : 90°C  
**Operating Voltage** : 250V

**Application**

Fixed installation for instrumentation, communication, Control and alarm systems in both EX- (Zone 2) and safe areas. Meets the mud resistant requirements in NEK 606.

**Standards applied**

IEC 60092-376 (2003-05)	- Design
IEC 60228 class 2	- Conductor
IEC 60092-351	- Insulation
IEC 60092-359	- Sheath
IEC 60332-1	- Flame Retardant
IEC 60332-3-22	- Flame Retardant
IEC 600754-1,2	- Halogen Free
IEC 61034-1,2	- Low Smoke

**Construction**

	Code Letter	
<b>Conductor</b>		Tinned annealed stranded circular copper (STCC), IEC 60228 class 2
<b>Insulation</b>	<b>R</b>	EP-rubber, IEC 60092-351 (EPR)
<b>Pair / Triple / Quad twisting</b>		Color coded cores twisted together and wrapped with polyester tape. Pairs/Triples are laid up collectively and screened by copper backed polyester tape with tinned copper drain wire. Pairs/triples are identified by numbers printed directly on the insulated conductors.
<b>Inner covering</b>		No inner covering. (Additional tapes may be applied)
<b>Armour/screen</b>		No armour.
<b>Outer sheath</b>	<b>U</b>	Flame retardant, halogen-free and mud resistant thermoset compound, SHF2 (IEC 60092-359)
<b>Marking text</b>		E.g. "meter" "year" DRAKA NORSK KABEL RU(c) 250V S12 2 pair 0,75 mm2 IEC 60092-376 IEC 60332-3-22
<b>Outer sheath colour</b>		Grey or Blue

**Core identification instrumentation cables**

Pair	Black - Light Blue
Triple	Black - Light Blue - Brown
Quad	Black - Light Blue - Brown - Grey

**Range and dimensions**

Number of elements	No of cores in element	Cross section core, mm <sup>2</sup>	Conductor Diameter, mm	Insulation Thickness, mm	Thickness Outer Sheath, mm	Diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)	Copper content Approx. (kg/km)
2	2	0.75	1.1	0.6	1.1	10 ± 0.8	140	33
4	2	0.75	1.1	0.6	1.1	11.5 ± 0.8	200	60
8	2	0.75	1.1	0.6	1.3	16 ± 0.8	410	116
12	2	0.75	1.1	0.6	1.4	18 ± 0.8	530	172
16	2	0.75	1.1	0.6	1.5	19.5 ± 0.8	660	227
19	2	0.75	1.1	0.6	1.5	20.5 ± 1	750	269
24	2	0.75	1.1	0.6	1.7	24 ± 1	950	338
2	3	0.75	1.1	0.6	1.1	11 ± 0.8	170	47
4	3	0.75	1.1	0.6	1.2	13 ± 0.8	270	89
8	3	0.75	1.1	0.6	1.4	17.5 ± 0.8	530	172
16	3	0.75	1.1	0.6	1.6	22 ± 1	900	341
24	3	0.75	1.1	0.6	1.8	27 ± 1	1300	508
2	2	1.5	1.6	0.7	1.2	12 ± 0.8	210	62
4	2	1.5	1.6	0.7	1.2	14 ± 0.8	320	118
8	2	1.5	1.6	0.7	1.4	19.5 ± 0.8	630	229
12	2	1.5	1.6	0.7	1.6	22.5 ± 1	850	339
12	2	1.5	1.6	0.7	1.6	22.5 ± 1	850	339
16	2	1.5	1.6	0.7	1.7	24.5 ± 1	1080	450
24	2	1.5	1.6	0.7	1.9	30 ± 1.5	1550	672
2	3	1.5	1.6	0.7	1.2	13.5 ± 0.8	265	91
4	3	1.5	1.6	0.7	1.3	16 ± 0.8	430	174
8	3	1.5	1.6	0.7	1.5	21.5 ± 1	840	341
12	3	1.5	1.6	0.7	1.7	25.5 ± 1	1170	509
16	3	1.5	1.6	0.7	1.8	27.5 ± 1	1500	676
24	3	1.5	1.6	0.7	2.1	34 ± 1.5	2210	1010

**Electrical values instrumentation cables**

Type	Capacitance, approx. (nF/km)	Inductance, approx. (mH/km)	Resistance at 20°C, max. (Ohm/km)	L/R ratio, (microH/Ohm)
Unshielded pair 0,75 mm <sup>2</sup>	100	0,67	24,8	14,3
Unshielded triple 0,75 mm <sup>2</sup>	100	0,67	24,8	14,3
Unshielded pair 1,5 mm <sup>2</sup>	110	0,63	12,2	26,6
Unshielded triple 1,5 mm <sup>2</sup>	110	0,63	12,2	26,6
Unshielded pair 2,5 mm <sup>2</sup>	125	0,59	7,56	39,0
Unshielded triple 2,5 mm <sup>2</sup>	125	0,59	7,56	39,0

**Ordering information**

Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.
895606	RU(C) 250V 2PAIR 0.75mm <sup>2</sup> S12	GREY	-	7021528956061	-
895618	RU(C) 250V 4PAIR 0.75mm <sup>2</sup> S12	GREY	-	7021528956184	-
895630	RU(C) 250V 8PAIR 0.75mm <sup>2</sup> S12	GREY	-	7021528956306	-
895636	RU(C) 250V 12PAIR 0.75mm <sup>2</sup> S12	GREY	-	7021528956368	-
895642	RU(C) 250V 16PAIR 0.75mm <sup>2</sup> S12	GREY	-	7021528956429	-
895645	RU(C) 250V 19PAIR 0.75mm <sup>2</sup> S12	GREY	-	7021528956450	-
895648	RU(C) 250V 24PAIR 0.75mm <sup>2</sup> S12	GREY	-	7021528956481	-



Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.
895666	RU(C) 250V 2TRIP 0.75mm <sup>2</sup> S12	GREY	-	7021528956665	-
895678	RU(C) 250V 4TRIP 0.75mm <sup>2</sup> S12	GREY	-	7021528956788	-
895690	RU(C) 250V 8TRIP 0.75mm <sup>2</sup> S12	GREY	-	7021528956900	-
895702	RU(C) 250V 16TRIP 0.75mm <sup>2</sup> S12	GREY	-	7021528957020	-
895708	RU(C) 250V 24TRIP 0.75mm <sup>2</sup> S12	GREY	-	7021528957082	-
895806	RU(C) 250V 2PAIR 1.5mm <sup>2</sup> S12	GREY	-	7021528958065	-
895818	RU(C) 250V 4PAIR 1.5mm <sup>2</sup> S12	GREY	-	7021528958188	-
895830	RU(C) 250V 8PAIR 1.5mm <sup>2</sup> S12	GREY	-	7021528958300	-
895836	RU(C) 250V 12PAIR 1.5mm <sup>2</sup> S12	GREY	-	7021528958362	-
895837	RU(C) 250V 12PAIR 1.5mm <sup>2</sup> S12	BLUE	-	7021528958379	-
895842	RU(C) 250V 16PAIR 1.5mm <sup>2</sup> S12	GREY	-	7021528958423	-
895848	RU(C) 250V 24PAIR 1.5mm <sup>2</sup> S12	GREY	-	7021528958485	-
895866	RU(C) 250V 2TRIP 1.5mm <sup>2</sup> S12	GREY	-	7021528958669	-
895878	RU(C) 250V 4TRIP 1.5mm <sup>2</sup> S12	GREY	-	7021528958782	-
895890	RU(C) 250V 8TRIP 1.5mm <sup>2</sup> S12	GREY	-	7021528958904	-
895896	RU(C) 250V 12TRIP 1.5mm <sup>2</sup> S12	GREY	-	7021528958966	-
895902	RU(C) 250V 16TRIP 1.5mm <sup>2</sup> S12	GREY	-	7021528959024	-
895908	RU(C) 250V 24TRIP 1.5mm <sup>2</sup> S12	GREY	-	7021528959086	-

### Installation recommendations

Minimum Bending Radius during Installation	Minimum Bending Radius Fixed Installed	Maximum Tensile Load During Installation	Minimum Installation Temperature
8 x D	6 x D	50 N /mm <sup>2</sup>	-20°C

## Halogen-free, fire resistant, unarmoured, mud resistant instrumentation cable BU(i) 250V, S13

Fire resistant, flame retardant halogen-free instrumentation cable. Mud resistant

### BU(i) 250V

MGT/EPR/EVA

NEK 606 CodeS13

Operating temperature : 90°C

Operating Voltage : 250V



#### Application

Fixed installation for instrumentation, communication, control and alarm systems in both EX-(Zone 2) and safe areas, emergency and critical systems where requirement for fire resistance exists. Meets the mud resistant requirements in NEK 606.

#### Standards applied

IEC 60092-376 (2003-05)	- Design
IEC 60228 class 2	- Conductor
IEC 60092-351	- Insulation
IEC 60092-359	- Sheath
IEC 60332-1	- Flame Retardant
IEC 60332-3-22	- Flame Retardant
IEC 60331-21	- Fire Resistant
IEC 600754-1,2	- Halogen Free
IEC 61034-1,2	- Low Smoke

#### Construction

	Code Letter	
<b>Conductor</b>		Tinned annealed stranded circular copper (STCC), IEC 60228 class 2
<b>Insulation</b>	<b>B</b>	Mica-tape + EP-rubber, IEC 60092-351 (EPR)
<b>Pair / Triple / Quad twisting</b>		Color coded cores twisted together. Pairs/Triples are screened by copper backed polyester tape with tinned copper drain wire. Each pair/triple is wrapped with polyester tape to prevent electrical contact with adjacent pairs/triples. Pairs/triples are identified by numbered tape or by numbers printed directly on the insulated conductors.
<b>Lay up / Shielding</b>		Individually shielded pairs/triples/quads are laid up in concentric layers and wrapped with a PETP tape.
<b>Inner covering</b>		No inner covering. (Additional tapes may be applied)
<b>Armour/screen</b>		No armour.
<b>Outer sheath</b>	<b>U</b>	Flame retardant, halogen-free and mud resistant thermoset compound, SHF2 (IEC 60092-359)
<b>Marking text</b>		"meter" "år" DRAKA NORSK KABEL BU(i) 250V S13 8 PAIR 0,75 mm <sup>2</sup> FLEX - FLAME IEC 60092-376 IEC 60331-21 IEC 60332-3-22
<b>Outer sheath colour</b>		Grey or Blue



**Core identification instrumentation cables**

Pair	Black - Light Blue
Triple	Black - Light Blue - Brown
Quad	Black - Light Blue - Brown - Grey

**Range and dimensions**

Number of elements	No of cores in element	Cross section core, mm <sup>2</sup>	Conductor Diameter, mm	Insulation Thickness, mm	Thickness Outer Sheath, mm	Diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)	Copper content Approx. (kg/km)
1	2	0.75	1.1	0.6	1	7.5 ± 0.5	95	18.5
1	2	0.75	1.1	0.6	1	7.5 ± 0.5	95	18.5
2	2	0.75	1.1	0.6	1.2	11 ± 0.8	170	37
2	2	0.75	1.1	0.6	1.2	11 ± 0.8	170	37
4	2	0.75	1.1	0.6	1.2	13 ± 0.8	265	74
8	2	0.75	1.1	0.6	1.4	17.5 ± 0.8	510	147
12	2	0.75	1.1	0.6	1.6	21 ± 1	720	220
16	2	0.75	1.1	0.6	1.7	23.5 ± 1	920	293
24	2	0.75	1.1	0.6	1.9	29 ± 1	1340	440
1	3	0.75	1.1	0.6	1	7.5 ± 0.5	110	26
2	3	0.75	1.1	0.6	1.2	12 ± 0.8	205	51
4	3	0.75	1.1	0.6	1.3	14 ± 0.8	350	102
8	3	0.75	1.1	0.6	1.5	19.5 ± 0.8	650	203
12	3	0.75	1.1	0.6	1.7	23.5 ± 1	930	305
16	3	0.75	1.1	0.6	1.8	26 ± 1	1210	407
24	3	0.75	1.1	0.6	2.1	32.5 ± 1.5	1770	610
1	2	1.5	1.6	0.7	1	8.5 ± 0.5	135	35
1	2	1.5	1.6	0.7	1	8.5 ± 0.5	135	35
2	2	1.5	1.6	0.7	1.3	13.5 ± 0.8	250	69
2	2	1.5	1.6	0.7	1.3	13.5 ± 0.8	250	69
4	2	1.5	1.6	0.7	1.4	16 ± 0.8	420	138
8	2	1.5	1.6	0.7	1.6	22 ± 1	790	275
12	2	1.5	1.6	0.7	1.7	26 ± 1	1100	412
12	2	1.5	1.6	0.7	1.7	26 ± 1	1100	412
16	2	1.5	1.6	0.7	1.9	29.5 ± 1	1460	549
24	2	1.5	1.6	0.7	2.2	36.5 ± 1.5	2160	824
1	3	1.5	1.6	0.7	1.1	9.5 ± 0.5	165	49
1	3	1.5	1.6	0.7	1.1	9.5 ± 0.5	165	49
2	3	1.5	1.6	0.7	1.3	14.5 ± 0.8	320	97
4	3	1.5	1.6	0.7	1.4	17.5 ± 0.8	540	194
8	3	1.5	1.6	0.7	1.7	23.5 ± 1	1030	387
12	3	1.5	1.6	0.7	1.9	29 ± 1	1480	582
16	3	1.5	1.6	0.7	2	32.5 ± 1.5	1920	775
24	3	1.5	1.6	0.7	2.4	40.5 ± 2	2880	1163
1	2	2.5	2	0.7	1.1	9.5 ± 0.5	170	54

**Electrical values instrumentation cables**

Type	Capacitance, approx. (nF/km)	Inductance, approx. (mH/km)	Resistance at 20°C, max. (Ohm/km)	L/R ratio, (microH/Ohm)
Shielded pair 0,75 mm <sup>2</sup>	110	0,67	24,8	14,3
Shielded triple 0,75 mm <sup>2</sup>	110	0,67	24,8	14,3
Shielded pair 1,5 mm <sup>2</sup>	125	0,63	12,2	26,6
Shielded triple 1,5 mm <sup>2</sup>	125	0,63	12,2	26,6
Shielded pair 2,5 mm <sup>2</sup>	145	0,59	7,56	39,0
Shielded triple 2,5 mm <sup>2</sup>	145	0,59	7,56	39,0

**Ordering information**

Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.
896200	BU(I) 250V 1PAIR 0.75mm <sup>2</sup> S13	GREY	-	7021528962000	-
896201	BU(I) 250V 1PAIR 0.75mm <sup>2</sup> S13	BLUE	-	7021528962017	-
896206	BU(I) 250V 2PAIR 0.75mm <sup>2</sup> S13	GREY	-	7021528962062	-
896207	BU(I) 250V 2PAIR 0.75mm <sup>2</sup> S13	BLUE	-	7021528962079	-
896218	BU(I) 250V 4PAIR 0.75mm <sup>2</sup> S13	GREY	-	7021528962185	-
896230	BU(I) 250V 8PAIR 0.75mm <sup>2</sup> S13	GREY	-	7021528962307	-
896236	BU(I) 250V 12PAIR 0.75mm <sup>2</sup> S13	GREY	-	7021528962369	-
896242	BU(I) 250V 16PAIR 0.75mm <sup>2</sup> S13	GREY	-	7021528962420	-
896248	BU(I) 250V 24PAIR 0.75mm <sup>2</sup> S13	GREY	-	7021528962482	-
896260	BU(I) 250V 1TRIP 0.75mm <sup>2</sup> S13	GREY	-	7021528962604	-
896266	BU(I) 250V 2TRIP 0.75mm <sup>2</sup> S13	GREY	-	7021528962666	-
896278	BU(I) 250V 4TRIP 0.75mm <sup>2</sup> S13	GREY	-	7021528962789	-
896290	BU(I) 250V 8TRIP 0.75mm <sup>2</sup> S13	GREY	-	7021528962901	-
896296	BU(I) 250V 12TRIP 0.75mm <sup>2</sup> S13	GREY	-	7021528962963	-
896302	BU(I) 250V 16TRIP 0.75mm <sup>2</sup> S13	GREY	-	7021528963021	-
896308	BU(I) 250V 24TRIP 0.75mm <sup>2</sup> S13	GREY	-	7021528963083	-
896400	BU(I) 250V 1PAIR 1.5mm <sup>2</sup> S13	GREY	-	7021528964004	-
896401	BU(I) 250V 1PAIR 1.5mm <sup>2</sup> S13	BLUE	-	7021528964011	-
896406	BU(I) 250V 2PAIR 1.5mm <sup>2</sup> S13	GREY	-	7021528964066	-
896407	BU(I) 250V 2PAIR 1.5mm <sup>2</sup> S13	BLUE	-	7021528964073	-
896418	BU(I) 250V 4PAIR 1.5mm <sup>2</sup> S13	GREY	-	7021528964189	-
896430	BU(I) 250V 8PAIR 1.5mm <sup>2</sup> S13	GREY	-	7021528964301	-
896436	BU(I) 250V 12PAIR 1.5mm <sup>2</sup> S13	GREY	-	7021528964363	-
896437	BU(I) 250V 12PAIR 1.5mm <sup>2</sup> S13	BLUE	-	7021528964370	-
896442	BU(I) 250V 16PAIR 1.5mm <sup>2</sup> S13	GREY	-	7021528964424	-
896448	BU(I) 250V 24PAIR 1.5mm <sup>2</sup> S13	GREY	-	7021528964486	-
896460	BU(I) 250V 1TRIP 1.5mm <sup>2</sup> S13	GREY	-	7021528964608	-
896461	BU(I) 250V 1TRIP 1.5mm <sup>2</sup> S13	BLUE	-	7021528964615	-
896466	BU(I) 250V 2TRIP 1.5mm <sup>2</sup> S13	GREY	-	7021528964660	-
896478	BU(I) 250V 4TRIP 1.5mm <sup>2</sup> S13	GREY	-	7021528964783	-
896490	BU(I) 250V 8TRIP 1.5mm <sup>2</sup> S13	GREY	-	7021528964905	-
896496	BU(I) 250V 12TRIP 1.5mm <sup>2</sup> S13	GREY	-	7021528964967	-
896502	BU(I) 250V 16TRIP 1.5mm <sup>2</sup> S13	GREY	-	7021528965025	-
896508	BU(I) 250V 24TRIP 1.5mm <sup>2</sup> S13	GREY	-	7021528965087	-
896600	BU(I) 250V 1PAIR 2.5mm <sup>2</sup> S13	GREY	-	7021528966008	-

### Installation recommendations

Minimum Bending Radius during Installation	Minimum Bending Radius Fixed Installed	Maximum Tensile Load During Installation	Minimum Installation Temperature
8 x D	6 x D	50 N /mm <sup>2</sup>	-20°C

## Halogen-free, fire resistant, unarmoured, mud resistant instrumentation cable BU(c) 250V, S14

Fire resistant, flame retardant halogen-free instrumentation cable. Mud resistant

### BU(c) 250V

MGT/EPR/EVA

NEK 606 CodeS14



Operating temperature : 90°C  
Operating Voltage : 250V

#### Application

Fixed installation for instrumentation, communication, control and alarm systems in both EX-(Zone 2) and safe areas, emergency and critical systems where requirement for fire resistance exists. Meets the mud resistant requirements in NEK 606.

#### Standards applied

IEC 60092-376 (2003-05)	- Design
IEC 60228 class 2	- Conductor
IEC 60092-351	- Insulation
IEC 60092-359	- Sheath
IEC 60332-1	- Flame Retardant
IEC 60332-3-22	- Flame Retardant
IEC 60331-21	- Fire Resistant
IEC 600754-1,2	- Halogen Free
IEC 61034-1,2	- Low Smoke

#### Construction

	Code Letter	
<b>Conductor</b>		Tinned annealed stranded circular copper (STCC), IEC 60228 class 2
<b>Insulation</b>	<b>B</b>	Mica-tape + EP-rubber, IEC 60092-351 (EPR)
<b>Pair / Triple / Quad twisting</b>		Color coded cores twisted together and wrapped with polyester tape. Pairs/Triples are laid up collectively and screened by copper backed polyester tape with tinned copper drain wire. Pairs/triples are identified by numbered tape or by numbers printed directly on the insulated conductors.
<b>Inner covering</b>		No inner covering. (Additional tapes may be applied)
<b>Armour/screen</b>		No armour.
<b>Outer sheath</b>	<b>U</b>	Flame retardant, halogen-free and mud resistant thermoset compound, SHF2 (IEC 60092-359)
<b>Marking text</b>		"meter" "år" DRAKA NORSK KABEL BU(c) 250V S14 8 PAIR 0,75 mm <sup>2</sup> FLEX - FLAME IEC 60092-376 IEC 60331-21 IEC 60332-3-22
<b>Outer sheath colour</b>		Grey or Blue

**Core identification instrumentation cables**

Pair	Black - Light Blue
Triple	Black - Light Blue - Brown
Quad	Black - Light Blue - Brown - Grey

**Range and dimensions**

Number of elements	No of cores in element	Cross section core, mm <sup>2</sup>	Conductor Diameter, mm	Insulation Thickness, mm	Thickness Outer Sheath, mm	Diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)	Copper content Approx. (kg/km)
2	2	0.75	1.1	0.6	1.1	10.5 ± 0.8	155	33
4	2	0.75	1.1	0.6	1.2	12.5 ± 0.8	235	61
8	2	0.75	1.1	0.6	1.4	17.5 ± 0.8	450	116
12	2	0.75	1.1	0.6	1.5	19.5 ± 0.8	590	172
16	2	0.75	1.1	0.6	1.6	21.5 ± 1	740	228
19	2	0.75	1.1	0.6	1.7	23 ± 1	850	269
24	2	0.75	1.1	0.6	1.8	26.5 ± 1	1060	339
2	3	0.75	1.1	0.6	1.2	12 ± 0.8	205	47
4	3	0.75	1.1	0.6	1.3	14.5 ± 0.8	320	89
8	3	0.75	1.1	0.6	1.5	19.5 ± 0.8	590	173
12	3	0.75	1.1	0.6	1.6	22.5 ± 1	800	257
16	3	0.75	1.1	0.6	1.7	24.5 ± 1	1030	341
24	3	0.75	1.1	0.6	2	30.5 ± 1.5	1500	509
2	2	1.5	1.6	0.7	1.2	13 ± 0.8	230	63
4	2	1.5	1.6	0.7	1.3	15.5 ± 0.8	360	118
8	2	1.5	1.6	0.7	1.5	21 ± 1	680	229
12	2	1.5	1.6	0.7	1.7	24.5 ± 1	940	340
16	2	1.5	1.6	0.7	1.8	26.5 ± 1	1200	451
24	2	1.5	1.6	0.7	2.1	33 ± 1.5	1770	673
2	3	1.5	1.6	0.7	1.3	15 ± 0.8	310	91
4	3	1.5	1.6	0.7	1.4	17.5 ± 0.8	500	174
8	3	1.5	1.6	0.7	1.6	23.5 ± 1	930	341
12	3	1.5	1.6	0.7	1.8	28 ± 1	1310	509
16	3	1.5	1.6	0.7	1.9	30.5 ± 1.5	1680	677
24	3	1.5	1.6	0.7	2.2	37.5 ± 1.5	2480	1011

**Electrical values instrumentation cables**

Type	Capacitance, approx. (nF/km)	Inductance, approx. (mH/km)	Resistance at 20°C, max. (Ohm/km)	L/R ratio, (microH/Ohm)
Unshielded pair 0,75 mm <sup>2</sup>	100	0,67	24,8	14,3
Unshielded triple 0,75 mm <sup>2</sup>	100	0,67	24,8	14,3
Unshielded pair 1,5 mm <sup>2</sup>	110	0,63	12,2	26,6
Unshielded triple 1,5 mm <sup>2</sup>	110	0,63	12,2	26,6
Unshielded pair 2,5 mm <sup>2</sup>	125	0,59	7,56	39,0
Unshielded triple 2,5 mm <sup>2</sup>	125	0,59	7,56	39,0

**Ordering information**

Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.
896806	BU(C) 250V 2PAIR 0.75mm <sup>2</sup> S14	GREY	-	7021528968064	-
896818	BU(C) 250V 4PAIR 0.75mm <sup>2</sup> S14	GREY	-	7021528968187	-
896830	BU(C) 250V 8PAIR 0.75mm <sup>2</sup> S14	GREY	-	7021528968309	-
896836	BU(C) 250V 12PAIR 0.75mm <sup>2</sup> S14	GREY	-	7021528968361	-
896842	BU(C) 250V 16PAIR 0.75mm <sup>2</sup> S14	GREY	-	7021528968422	-
896845	BU(C) 250V 19PAIR 0.75mm <sup>2</sup> S14	GREY	-	7021528968453	-
896848	BU(C) 250V 24PAIR 0.75mm <sup>2</sup> S14	GREY	-	7021528968484	-



Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.
896866	BU(C) 250V 2TRIP 0.75mm <sup>2</sup> S14	GREY	-	7021528968668	-
896878	BU(C) 250V 4TRIP 0.75mm <sup>2</sup> S14	GREY	-	7021528968781	-
896890	BU(C) 250V 8TRIP 0.75mm <sup>2</sup> S14	GREY	-	7021528968903	-
896896	BU(C) 250V 12TRIP 0.75mm <sup>2</sup> S14	GREY	-	7021528968965	-
896902	BU(C) 250V 16TRIP 0.75mm <sup>2</sup> S14	GREY	-	7021528969023	-
896908	BU(C) 250V 24TRIP 0.75mm <sup>2</sup> S14	GREY	-	7021528969085	-
897006	BU(C) 250V 2PAIR 1.5mm <sup>2</sup> S14	GREY	-	7021528970067	-
897018	BU(C) 250V 4PAIR 1.5mm <sup>2</sup> S14	GREY	-	7021528970180	-
897030	BU(C) 250V 8PAIR 1.5mm <sup>2</sup> S14	GREY	-	7021528970302	-
897036	BU(C) 250V 12PAIR 1.5mm <sup>2</sup> S14	GREY	-	7021528970364	-
897042	BU(C) 250V 16PAIR 1.5mm <sup>2</sup> S14	GREY	-	7021528970425	-
897048	BU(C) 250V 24PAIR 1.5mm <sup>2</sup> S14	GREY	-	7021528970487	-
897066	BU(C) 250V 2TRIP 1.5mm <sup>2</sup> S14	GREY	-	7021528970661	-
897078	BU(C) 250V 4TRIP 1.5mm <sup>2</sup> S14	GREY	-	7021528970784	-
897090	BU(C) 250V 8TRIP 1.5mm <sup>2</sup> S14	GREY	-	7021528970906	-
897096	BU(C) 250V 12TRIP 1.5mm <sup>2</sup> S14	GREY	-	7021528970968	-
897102	BU(C) 250V 16TRIP 1.5mm <sup>2</sup> S14	GREY	-	7021528971026	-
897108	BU(C) 250V 24TRIP 1.5mm <sup>2</sup> S14	GREY	-	7021528971088	-

### Installation recommendations

Minimum Bending Radius during Installation	Minimum Bending Radius Fixed Installed	Maximum Tensile Load During Installation	Minimum Installation Temperature
8 x D	6 x D	50 N /mm <sup>2</sup>	-20°C

**Halogen-free, mud resistant power cable RFOU 0,6/1kV, P1/P8**

Flame retardant halogen-free power cable.  
Mud resistant

# RFOU 0,6/1kV

EPR/EPR/TCWB/EVA

NEK 606 CodeP1/P8



Operating temperature : 90°C  
Operating Voltage : 0,6/1kV

### Application

Fixed installation for power, control and lighting in both EX- and safe areas, general purposes. For installation in areas exposed to MUD and drilling/cleaning fluids.

### Standards applied

IEC 60092-353	- Design
IEC 60228 class 2	- Conductor
IEC 60092-351	- Insulation
IEC 60092-359	- Sheath
IEC 60332-1	- Flame Retardant
IEC 60332-3-22	- Flame Retardant
IEC 60754-1,2	- Halogen Free
IEC 61034-1,2	- Low Smoke

### Construction

	Code Letter	
<b>Conductor</b>		Tinned annealed stranded circular copper (STCC), IEC 60228 class 2
<b>Insulation</b>	<b>R</b>	EP-rubber, IEC 60092-351 (EPR)
<b>Lay up / Shielding</b>		Cores laid up in concentric layers
<b>Inner covering</b>	<b>F</b>	Flame retardant and halogen-free thermoset compound
<b>Tape over inner covering</b>		PET tape
<b>Armour/screen</b>	<b>O</b>	Tinned annealed copper wire braid
<b>Tape over armour/screen</b>		PET tape
<b>Outer sheath</b>	<b>U</b>	Flame retardant, halogen-free and mud resistant thermoset compound, SHF2 (IEC 60092-359)
<b>Marking text</b>		E.g. "meter" "year" DRAKA NORSK KABEL RFOU 0,6/1KV P1/P8 3 x 35/16 mm <sup>2</sup> IEC 60332-3-22 ETL Classified No. 3067229
<b>Outer sheath colour</b>		Black

## Core identification power cables

Single core	Grey (Offwhite)
Two cores	Grey (Offwhite) - Black
Three cores	Grey (Offwhite) - Black - Red
Four cores	Grey (Offwhite) - Black - Red - Blue
Five cores	Grey (Offwhite) - Black - Red - Blue - Black
Above five cores	Black numbers on white base
Separate earth core	Yellow/green
G / x in cable description	G = one of the core are yellow/green - x = no yellow/green core

From Q3 2007 the core colours on RFOU, BFOU, RU and BU 0,6/1kV will be changed to follow Cenelec HD 308S2 colours:

Single core	Black
Two cores	Blue - Brown
Two cores + earth	Blue - Brown - Yellow/green
Three cores	Brown - Black - Grey
Three cores + earth	Brown - Black - Grey - Yellow/green
Four cores	Blue - Brown - Black - Grey
Four cores + earth	Blue - Brown - Black - Grey - Yellow/green
Five cores	Blue - Brown - Black - Grey - Black
Above five cores	Black numbers on white base

## Range and dimensions

Number of elements	Cross section core, mm <sup>2</sup>	Cross section screen, mm <sup>2</sup>	Conductor Diameter, mm	Insulation Thickness, mm	Thickness Inner covering, mm	Diameter inner covering, mm	Diameter Braid Wire, mm	Thickness Outer Sheath, mm	Diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)	Copper content Approx. (kg/km)
1	16	2.5	5.15	1.0	1.1	9.5 ± 0.5	0.2	1.2	13 ± 0.8	360	188
1	25	4	6.45	1.2	1.1	11.5 ± 0.8	0.2	1.2	14.5 ± 0.8	480	280
1	35	6	7.65	1.2	1.1	12.5 ± 0.8	0.3	1.3	16 ± 0.8	650	408
1	50	6	9.0	1.4	1.1	14.5 ± 0.8	0.3	1.4	18.5 ± 0.8	830	527
1	70	6	10.85	1.4	1.1	16.5 ± 0.8	0.3	1.4	20.5 ± 1	1090	735
1	95	10	12.60	1.6	1.1	18.5 ± 0.8	0.3	1.5	23 ± 1	1380	961
1	120	10	14.20	1.6	1.2	20.5 ± 1	0.3	1.6	25 ± 1	1710	1224
1	150	10	15.90	1.8	1.2	22.5 ± 1	0.3	1.6	27 ± 1	2040	1485
1	185	10	17.70	2.0	1.2	24.5 ± 1	0.3	1.7	29.5 ± 1	2480	1837
1	240	16	20.15	2.2	1.2	27.5 ± 1	0.3	1.8	32.5 ± 1.5	3130	2372
1	300	16	22.60	2.4	1.2	30.5 ± 1.5	0.3	1.9	35.5 ± 1.5	3830	2952
2	1.5	4	1.6	1.0	1.1	9.5 ± 0.5	0.2	1.2	12.5 ± 0.8	270	80
3G	1.5	-	1.6	1.0	1.1	10 ± 0.8	0.2	1.2	13.5 ± 0.8	295	94
4G	1.5	-	1.6	1.0	1.1	11 ± 0.8	0.3	1.3	14.5 ± 0.8	380	139
3	1.5	4	1.6	1.0	1.1	10 ± 0.8	0.2	1.2	13.5 ± 0.8	295	94
4	1.5	6	1.6	1.0	1.1	11 ± 0.8	0.3	1.3	14.5 ± 0.8	380	139
5	1.5	6	1.6	1.0	1.1	12 ± 0.8	0.3	1.3	15.5 ± 0.8	440	169
7	1.5	6	1.6	1.0	1.1	13 ± 0.8	0.3	1.3	17 ± 0.8	500	197
12	1.5	10	1.6	1.0	1.1	17.5 ± 0.8	0.3	1.5	21.5 ± 1	740	300
19	1.5	10	1.6	1.0	1.2	20.5 ± 1	0.3	1.6	25 ± 1	1020	413
27	1.5	10	1.6	1.0	1.2	24.5 ± 1	0.3	1.8	29.5 ± 1	1360	551
37	1.5	16	1.6	1.0	1.2	27.5 ± 1	0.3	1.9	32.5 ± 1.5	1720	713
7G	1.5	-	1.6	1.0	1.1	13 ± 0.8	0.3	1.3	17 ± 0.8	500	197
2	2.5	4	2.0	1.0	1.1	10.5 ± 0.8	0.2	1.2	13.5 ± 0.8	310	98
3G	2.5	-	2.0	1.0	1.1	11 ± 0.8	0.3	1.3	14.5 ± 0.8	390	152
3	2.5	6	2.0	1.0	1.1	11 ± 0.8	0.3	1.3	14.5 ± 0.8	390	152
4G	2.5	-	2.0	1.0	1.1	12 ± 0.8	0.3	1.3	16 ± 0.8	460	191
5G	2.5	-	2.0	1.0	1.1	13 ± 0.8	0.3	1.4	17 ± 0.8	530	214
4	2.5	6	2.0	1.0	1.1	12 ± 0.8	0.3	1.3	16 ± 0.8	460	191





Number of elements	Cross section core, mm <sup>2</sup>	Cross section screen, mm <sup>2</sup>	Conductor Diameter, mm	Insulation Thickness, mm	Thickness Inner covering, mm	Diameter inner covering, mm	Diameter Braid Wire, mm	Thickness Outer Sheath, mm	Diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)	Copper content Approx. (kg/km)
7	2.5	6	2.0	1.0	1.1	14.5 ± 0.8	0.3	1.4	18.5 ± 0.8	630	277
12	2.5	10	2.0	1.0	1.2	19.5 ± 0.8	0.3	1.6	23.5 ± 1	950	424
19	2.5	10	2.0	1.0	1.2	23 ± 1	0.3	1.7	27.5 ± 1	1310	609
27	2.5	16	2.0	1.0	1.2	27.5 ± 1	0.3	1.9	32.5 ± 1.5	1760	817
7G	2.5	-	2.0	1.0	1.1	14.5 ± 0.8	0.3	1.4	18.5 ± 0.8	630	276
2	4	6	2.55	1.0	1.1	11.5 ± 0.8	0.3	1.3	15 ± 0.8	410	156
3	4	6	2.55	1.0	1.1	12 ± 0.8	0.3	1.3	16 ± 0.8	480	209
4	4	6	2.55	1.0	1.1	13.5 ± 0.8	0.3	1.4	17 ± 0.8	560	246
5	4	6	2.55	1.0	1.1	14.5 ± 0.8	0.3	1.4	18.5 ± 0.8	660	299
3G	4	-	2.55	1.0	1.1	12 ± 0.8	0.3	1.3	16 ± 0.8	480	209
5G	4	-	2.55	1.0	1.1	14.5 ± 0.8	0.3	1.4	18.5 ± 0.8	660	299
2	6	6	3.15	1.0	1.1	12.5 ± 0.8	0.3	1.3	16.5 ± 0.8	500	209
3	6	6	3.15	1.0	1.1	13.5 ± 0.8	0.3	1.4	17.5 ± 0.8	590	263
4	6	6	3.15	1.0	1.1	15 ± 0.8	0.3	1.4	18.5 ± 0.8	700	334
4G	6	-	3.15	1.0	1.1	15 ± 0.8	0.3	1.4	18.5 ± 0.8	700	334
3G	6	-	3.15	1.0	1.1	13.5 ± 0.8	0.3	1.4	17.5 ± 0.8	590	263
5G	6	-	3.15	1.0	1.1	16.5 ± 0.8	0.3	1.5	20.5 ± 1	820	388
2	10	10	4.05	1.0	1.1	14.5 ± 0.8	0.3	1.4	18.5 ± 0.8	670	299
3	10	10	4.05	1.0	1.1	15.5 ± 0.8	0.3	1.4	19.5 ± 0.8	780	389
4	10	10	4.05	1.0	1.1	17 ± 0.8	0.3	1.5	21 ± 1	940	494
3G	10	-	4.05	1.0	1.1	15.5 ± 0.8	0.3	1.4	19.5 ± 0.8	780	387
5G	10	-	4.05	1.0	1.2	19 ± 0.8	0.3	1.5	23 ± 1	1130	600
4G	10	-	4.05	1.0	1.1	17 ± 0.8	0.3	1.5	21 ± 1	940	494
2	16	16	5.15	1.0	1.1	16.5 ± 0.8	0.4	1.5	21 ± 1	950	477
3	16	16	5.15	1.0	1.1	18 ± 0.8	0.4	1.5	22 ± 1	1110	621
4	16	16	5.15	1.0	1.2	20 ± 1	0.4	1.6	24.5 ± 1	1390	799
4G	16	-	5.15	1.0	1.2	20 ± 1	0.3	1.6	24 ± 1	1310	727
5G	16	-	5.15	1.0	1.2	22 ± 1	0.3	1.6	26 ± 1	1530	873
3G	16	-	5.15	1.0	1.1	18 ± 0.8	0.3	1.5	22 ± 1	1060	566
2	25	16	6.45	1.2	1.2	20.5 ± 1	0.4	1.6	25 ± 1	1320	680
3	25	16	6.45	1.2	1.2	22 ± 1	0.3	1.6	26 ± 1	1560	887
4	25	16	6.45	1.2	1.2	24 ± 1	0.3	1.7	28.5 ± 1	1900	1116
4G	25	-	6.45	1.2	1.2	24 ± 1	0.3	1.7	28.5 ± 1	1880	1091
3G	25	-	6.45	1.2	1.2	22 ± 1	0.3	1.6	26 ± 1	1510	837
5G	25	-	6.45	1.2	1.2	26.5 ± 1	0.3	1.8	31.5 ± 1.5	2250	1345
2	35	16	7.65	1.2	1.2	23 ± 1	0.3	1.7	27.5 ± 1	1580	817
3	35	16	7.65	1.2	1.2	24.5 ± 1	0.3	1.7	29 ± 1	1920	1126
4	35	16	7.65	1.2	1.2	27 ± 1	0.3	1.8	31.5 ± 1.5	2360	1435
4G	35	-	7.65	1.2	1.2	27 ± 1	0.3	1.8	31.5 ± 1.5	2360	1435
5G	35	-	7.65	1.2	1.2	30 ± 1.5	0.3	1.9	35 ± 1.5	2840	1768
3	50	25	9.0	1.4	1.2	28.5 ± 1	0.4	1.9	34 ± 1.5	2660	1596
4	50	25	9.0	1.4	1.4	32 ± 1.5	0.4	2	37.5 ± 1.5	3290	2025
4G	50	-	9.0	1.4	1.4	32 ± 1.5	0.3	2	37 ± 1.5	3200	1939
5G	50	-	9.0	1.4	1.4	35 ± 1.5	0.4	2.1	41 ± 2	4000	2498
2	70	35	10.85	1.4	1.2	30.5 ± 1.5	0.6	1.9	36.5 ± 1.5	3010	1756
3	70	35	10.85	1.4	1.4	33 ± 1.5	0.5	2	39 ± 1.5	3690	2346
4	70	35	10.85	1.4	1.4	36.5 ± 1.5	0.5	2.2	43 ± 2	4550	2967
4G	70	-	10.85	1.4	1.4	36.5 ± 1.5	0.4	2.2	42.5 ± 2	4410	2837
5G	70	-	10.85	1.4	1.4	40.5 ± 2	0.4	2.3	46.5 ± 2	5290	3465
5	70	35	10.85	1.4	1.4	40.5 ± 2	0.4	2.3	46.5 ± 2	5370	3547
2	95	50	12.60	1.6	1.4	35 ± 1.5	0.6	2.1	41.5 ± 2	3940	2292
3	95	50	12.60	1.6	1.4	37.5 ± 1.5	0.5	2.2	43.5 ± 2	4790	3091
4	95	50	12.60	1.6	1.4	41.5 ± 2	0.5	2.4	48.5 ± 2	5980	3973
4G	95	-	12.60	1.6	1.4	41.5 ± 2	0.4	2.4	48 ± 2	5750	3749
5G	120	-	14.20	1.6	1.6	50.5 ± 2.5	0.5	2.7	58.5 ± 2.5	8620	5873



Number of elements	Cross section core, mm <sup>2</sup>	Cross section screen, mm <sup>2</sup>	Conductor Diameter, mm	Insulation Thickness, mm	Thickness Inner covering, mm	Diameter inner covering, mm	Diameter Braid Wire, mm	Thickness Outer Sheath, mm	Diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)	Copper content Approx. (kg/km)
2	120	60	14.20	1.6	1.4	38 ± 1.5	0.6	2.2	45 ± 2	4800	2875
3	120	60	14.20	1.6	1.4	41 ± 2	0.6	2.3	48 ± 2	5930	3953
3	150	60	15.90	1.8	1.6	45.5 ± 2	0.6	2.5	53 ± 2.5	7220	4773
4	120	60	14.20	1.6	1.6	46 ± 2	0.6	2.5	53.5 ± 2.5	7420	5071
4G	120	-	14.20	1.6	1.6	46 ± 2	0.4	2.5	52.5 ± 2.5	7090	4752
3	185	50	17.70	2.0	1.6	50.5 ± 2.5	0.5	2.7	58 ± 2.5	8550	5634
4G	150	-	15.90	1.8	1.6	51 ± 2.5	0.5	2.7	58.5 ± 2.5	8700	5845
4G	185	-	17.7	2.0	1.8	56.5 ± 2.5	0.5	2.9	64.5 ± 3	10690	7238
3	240	50	20.15	2.2	1.8	57.5 ± 2.5	0.5	2.9	65.5 ± 3	10840	7184
4G	240	-	19.1	2.2	1.8	62 ± 2.5	0.4	2.8	72 ± 3.5	13650	10054
4	185	95	16.8	2.0	1.6	55 ± 2	0.6	2.8	64 ± 3	11350	6598
4	240	120	19.1	2.2	2.0	62 ± 2.5	0.6	3.0	72 ± 3.5	14800	8777



## Ordering information

Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.
800000	RFOU 0.6/1kV 1X 16/2.5 P1/P8	BLACK	-	7021528000009	-
800001	RFOU 0.6/1kV 1X 25/4mm <sup>2</sup> P1/P8	BLACK	-	7021528000016	-
800002	RFOU 0.6/1kV 1X 35/6mm <sup>2</sup> P1/P8	BLACK	-	7021528000023	1044207
800003	RFOU 0.6/1kV 1X 50/6mm <sup>2</sup> P1/P8	BLACK	-	7021528000030	1044208
800004	RFOU 0.6/1kV 1X 70/6mm <sup>2</sup> P1/P8	BLACK	-	7021528000047	-
800005	RFOU 0.6/1kV 1X 95/10mm <sup>2</sup> P1/P8	BLACK	-	7021528000054	1044210
800006	RFOU 0.6/1kV 1X 120/10 P1/P8	BLACK	-	7021528000061	-
800007	RFOU 0.6/1kV 1X 150/10 P1/P8	BLACK	-	7021528000078	1044211
800008	RFOU 0.6/1kV 1X 185/10 P1/P8	BLACK	-	7021528000085	1044213
800009	RFOU 0.6/1kV 1X 240/16 P1/P8	BLACK	-	7021528000092	1044214
800010	RFOU 0.6/1kV 1X 300/16 P1/P8	BLACK	Yes	7021528000108	1044215
800015	RFOU 0.6/1kV 2X 1.5/4mm <sup>2</sup> P1/P8	BLACK	Yes	7021528000153	1044220
800016	RFOU 0.6/1kV 3G 1.5mm <sup>2</sup> P1/P8	BLACK	-	7021528000160	-
800017	RFOU 0.6/1kV 4G 1.5mm <sup>2</sup> P1/P8	BLACK	-	7021528000177	-
800018	RFOU 0.6/1kV 3X 1.5/4mm <sup>2</sup> P1/P8	BLACK	Yes	7021528000184	1044240
800019	RFOU 0.6/1kV 4X 1.5/6mm <sup>2</sup> P1/P8	BLACK	Yes	7021528000191	1044260
800020	RFOU 0.6/1kV 5X 1.5/6mm <sup>2</sup> P1/P8	BLACK	-	7021528000207	1044305
800021	RFOU 0.6/1kV 7X 1.5/6mm <sup>2</sup> P1/P8	BLACK	Yes	7021528000214	1044307
800022	RFOU 0.6/1kV 12X 1.5/10 P1/P8	BLACK	Yes	7021528000221	1044312
800023	RFOU 0.6/1kV 19X 1.5/10 P1/P8	BLACK	-	7021528000238	1044319
800024	RFOU 0.6/1kV 27X 1.5/10 P1/P8	BLACK	-	7021528000245	1044327
800025	RFOU 0.6/1kV 37X 1.5/16 P1/P8	BLACK	-	7021528000252	-
800028	RFOU 0.6/1kV 7G 1.5mm <sup>2</sup> P1/P8	BLACK	-	7021528000283	-
800029	RFOU 0.6/1kV 2X 2.5/4mm <sup>2</sup> P1/P8	BLACK	Yes	7021528000290	1044221
800030	RFOU 0.6/1kV 3G 2.5mm <sup>2</sup> P1/P8	BLACK	-	7021528000306	-
800032	RFOU 0.6/1kV 3X 2.5/6mm <sup>2</sup> P1/P8	BLACK	Yes	7021528000320	1044241
800033	RFOU 0.6/1kV 4G 2.5mm <sup>2</sup> P1/P8	BLACK	-	7021528000337	-
800034	RFOU 0.6/1kV 5G 2.5mm <sup>2</sup> P1/P8	BLACK	-	7021528000344	-
800035	RFOU 0.6/1kV 4X 2.5/6mm <sup>2</sup> P1/P8	BLACK	Yes	7021528000351	1044261
800037	RFOU 0.6/1kV 7X 2.5/6mm <sup>2</sup> P1/P8	BLACK	-	7021528000375	1044357
800038	RFOU 0.6/1kV 12X 2.5/10 P1/P8	BLACK	-	7021528000382	1044362
800039	RFOU 0.6/1kV 19X 2.5/10 P1/P8	BLACK	-	7021528000399	-
800040	RFOU 0.6/1kV 27X 2.5/16 P1/P8	BLACK	-	7021528000405	1044377
800044	RFOU 0.6/1kV 7G 2.5mm <sup>2</sup> P1/P8	BLACK	-	7021528000443	-
800045	RFOU 0.6/1kV 2X 4/6mm <sup>2</sup> P1/P8	BLACK	Yes	7021528000450	1044222
800046	RFOU 0.6/1kV 3X 4/6mm <sup>2</sup> P1/P8	BLACK	Yes	7021528000467	1044242
800047	RFOU 0.6/1kV 4X 4/6mm <sup>2</sup> P1/P8	BLACK	-	7021528000474	1044262
800048	RFOU 0.6/1kV 5X 4/6mm <sup>2</sup> P1/P8	BLACK	-	7021528000481	-
800049	RFOU 0.6/1kV 3G 4mm <sup>2</sup> P1/P8	BLACK	-	7021528000498	-
800050	RFOU 0.6/1kV 5G 4mm <sup>2</sup> P1/P8	BLACK	-	7021528000504	-
800051	RFOU 0.6/1kV 2X 6/6mm <sup>2</sup> P1/P8	BLACK	Yes	7021528000511	1044223
800052	RFOU 0.6/1kV 3X 6/6mm <sup>2</sup> P1/P8	BLACK	Yes	7021528000528	1044243
800053	RFOU 0.6/1kV 4X 6/6mm <sup>2</sup> P1/P8	BLACK	-	7021528000535	1044263
800054	RFOU 0.6/1kV 4G 6mm <sup>2</sup> P1/P8	BLACK	-	7021528000542	-
800055	RFOU 0.6/1kV 3G 6mm <sup>2</sup> P1/P8	BLACK	-	7021528000559	-
800056	RFOU 0.6/1kV 5G 6mm <sup>2</sup> P1/P8	BLACK	-	7021528000566	-
800057	RFOU 0.6/1kV 2X 10/10mm <sup>2</sup> P1/P8	BLACK	-	7021528000573	1044224
800058	RFOU 0.6/1kV 3X 10/10mm <sup>2</sup> P1/P8	BLACK	Yes	7021528000580	1044244
800059	RFOU 0.6/1kV 4X 10/10mm <sup>2</sup> P1/P8	BLACK	-	7021528000597	1044264
800060	RFOU 0.6/1kV 3G 10mm <sup>2</sup> P1/P8	BLACK	-	7021528000603	-
800061	RFOU 0.6/1kV 5G 10mm <sup>2</sup> P1/P8	BLACK	-	7021528000610	-
800062	RFOU 0.6/1kV 4G 10mm <sup>2</sup> P1/P8	BLACK	-	7021528000627	-
800063	RFOU 0.6/1kV 2X 16/16mm <sup>2</sup> P1/P8	BLACK	-	7021528000634	1044225
800064	RFOU 0.6/1kV 3X 16/16mm <sup>2</sup> P1/P8	BLACK	Yes	7021528000641	1044245
800065	RFOU 0.6/1kV 4X 16/16mm <sup>2</sup> P1/P8	BLACK	-	7021528000658	1044265
800066	RFOU 0.6/1kV 4G 16mm <sup>2</sup> P1/P8	BLACK	-	7021528000665	-
800067	RFOU 0.6/1kV 5G 16mm <sup>2</sup> P1/P8	BLACK	-	7021528000672	-
800068	RFOU 0.6/1kV 3G 16mm <sup>2</sup> P1/P8	BLACK	-	7021528000689	-



Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.
800069	RFOU 0.6/1kV 2X 25/16mm <sup>2</sup> P1/P8	BLACK	-	7021528000696	-
800070	RFOU 0.6/1kV 3X 25/16mm <sup>2</sup> P1/P8	BLACK	Yes	7021528000702	1044246
800071	RFOU 0.6/1kV 4X 25/16mm <sup>2</sup> P1/P8	BLACK	Yes	7021528000719	1044266
800072	RFOU 0.6/1kV 4G 25mm <sup>2</sup> P1/P8	BLACK	-	7021528000726	-
800073	RFOU 0.6/1kV 3G 25mm <sup>2</sup> P1/P8	BLACK	-	7021528000733	-
800074	RFOU 0.6/1kV 5G 25mm <sup>2</sup> P1/P8	BLACK	-	7021528000740	-
800075	RFOU 0.6/1kV 2X 35/16mm <sup>2</sup> P1/P8	BLACK	-	7021528000757	-
800076	RFOU 0.6/1kV 3X 35/16mm <sup>2</sup> P1/P8	BLACK	Yes	7021528000764	1044247
800077	RFOU 0.6/1kV 4X 35/16mm <sup>2</sup> P1/P8	BLACK	-	7021528000771	1044267
800078	RFOU 0.6/1kV 4G 35mm <sup>2</sup> P1/P8	BLACK	-	7021528000788	-
800079	RFOU 0.6/1kV 5G 35mm <sup>2</sup> P1/P8	BLACK	-	7021528000795	-
800082	RFOU 0.6/1kV 3X 50/25mm <sup>2</sup> P1/P8	BLACK	Yes	7021528000825	1044248
800083	RFOU 0.6/1kV 4X 50/25mm <sup>2</sup> P1/P8	BLACK	Yes	7021528000832	1044268
800084	RFOU 0.6/1kV 4G 50mm <sup>2</sup> P1/P8	BLACK	-	7021528000849	-
800085	RFOU 0.6/1kV 5G 50mm <sup>2</sup> P1/P8	BLACK	-	7021528000856	-
800087	RFOU 0.6/1kV 2X 70/35mm <sup>2</sup> P1/P8	BLACK	-	7021528000870	-
800088	RFOU 0.6/1kV 3X 70/35mm <sup>2</sup> P1/P8	BLACK	Yes	7021528000887	1044249
800089	RFOU 0.6/1kV 4X 70/35mm <sup>2</sup> P1/P8	BLACK	-	7021528000894	1044269
800090	RFOU 0.6/1kV 4G 70mm <sup>2</sup> P1/P8	BLACK	-	7021528000900	-
800091	RFOU 0.6/1kV 5G 70mm <sup>2</sup> P1/P8	BLACK	-	7021528000917	-
800092	RFOU 0.6/1kV 5X 70/35mm <sup>2</sup> P1/P8	BLACK	-	7021528000924	-
800094	RFOU 0.6/1kV 2X 95/50mm <sup>2</sup> P1/P8	BLACK	-	7021528000948	-
800095	RFOU 0.6/1kV 3X 95/50mm <sup>2</sup> P1/P8	BLACK	Yes	7021528000955	1044250
800096	RFOU 0.6/1kV 4X 95/50mm <sup>2</sup> P1/P8	BLACK	Yes	7021528000962	1044270
800097	RFOU 0.6/1kV 4G 95mm <sup>2</sup> P1/P8	BLACK	-	7021528000979	-
800099	RFOU 0.6/1kV 5G 120mm <sup>2</sup> P1/P8	BLACK	-	7021528000993	-
800100	RFOU 0.6/1kV 2X 120/60 P1/P8	BLACK	-	7021528001006	-
800101	RFOU 0.6/1kV 3X 120/60 P1/P8	BLACK	Yes	7021528001013	1044251
800103	RFOU 0.6/1kV 3X 150/60 P1/P8	BLACK	-	7021528001037	-
800105	RFOU 0.6/1kV 4X 120/60 P1/P8	BLACK	-	7021528001051	-
800106	RFOU 0.6/1kV 4G 120mm <sup>2</sup> P1/P8	BLACK	-	7021528001068	-
800107	RFOU 0.6/1kV 3X 185/50 P1/P8	BLACK	-	7021528001075	-
800108	RFOU 0.6/1kV 4G 150mm <sup>2</sup> P1/P8	BLACK	-	7021528001082	-
800110	RFOU 0.6/1kV 4G 185mm <sup>2</sup> P1/P8	BLACK	-	7021528001105	-
800114	RFOU 0.6/1kV 3X 240/50 P1/P8	BLACK	-	7021528001143	-
803904	RFOU 0.6/1kV 4G 240mm <sup>2</sup> P1/P8	BLACK	-	7021528039047	-
803905	RFOU 0.6/1kV 4X 185/95 P1/P8	BLACK	-	7021528039054	-
803906	RFOU 0.6/1kV 4X 240/120 P1/P8	BLACK	-	7021528039061	-

**Electrical values power cables**

Number of elements	Cross section core, mm <sup>2</sup>	Cross section screen, mm <sup>2</sup>	Conductor type 2	Max. conductor resistance at 20°C, Ohm/km	Max. conductor resistance at 90°C, Ohm/km	Reactance at 50Hz, Ohm/km	Reactance at 60Hz, Ohm/km	Current rating IEC 60092-352 Table B.4, Ampere	Short circuit rating 1 second, Ampere
1	16	2.5	STCC	1.16	1.48	0.116	0.14	96	2240
1	25	4	STCC	0.734	0.936	0.11	0.132	127	3500
1	35	6	STCC	0.529	0.675	0.106	0.128	157	4900
1	50	6	STCC	0.391	0.499	0.104	0.125	196	7000
1	70	6	STCC	0.27	0.344	0.099	0.119	242	9800
1	95	10	STCC	0.195	0.249	0.097	0.116	293	13300
1	120	10	STCC	0.154	0.196	0.094	0.113	339	16800
1	150	10	STCC	0.126	0.161	0.092	0.111	389	21000
1	185	10	STCC	0.1	0.128	0.091	0.109	444	25900
1	240	16	STCC	0.0762	0.0972	0.089	0.107	522	33600
1	300	16	STCC	0.0607	0.0774	0.087	0.105	601	42000
2	1.5	4	STCC	12.2	15.6	0.110	0.132	20	210
3G	1.5	-	STCC	12.2	15.6	0.110	0.132	20	210
4G	1.5	-	STCC	12.2	15.6	0.110	0.132	16	210
3	1.5	4	STCC	12.2	15.6	0.110	0.132	16	210
4	1.5	6	STCC	12.2	15.6	0.110	0.132	16	210
5	1.5	6	STCC	12.2	15.6	0.110	0.132	13.5	210
7	1.5	6	STCC	12.2	15.6	0.110	0.132	12	210
12	1.5	10	STCC	12.2	15.6	0.110	0.132	10	210
19	1.5	10	STCC	12.2	15.6	0.110	0.132	8.5	210
27	1.5	10	STCC	12.2	15.6	0.110	0.132	7.5	210
37	1.5	16	STCC	12.2	15.6	0.110	0.132	7	210
7G	1.5	-	STCC	12.2	15.6	0.110	0.132	12.5	210
2	2.5	4	STCC	7.56	9.64	0.103	0.123	26	350
3G	2.5	-	STCC	7.56	9.64	0.103	0.123	26	350
3	2.5	6	STCC	7.56	9.64	0.103	0.123	21	350
4G	2.5	-	STCC	7.56	9.64	0.103	0.123	21	350
5G	2.5	-	STCC	7.56	9.64	0.103	0.123	21	350
4	2.5	6	STCC	7.56	9.64	0.103	0.123	21	350
7	2.5	6	STCC	7.56	9.64	0.103	0.123	15.5	350
12	2.5	10	STCC	7.56	9.64	0.103	0.123	13	350
19	2.5	10	STCC	7.56	9.64	0.103	0.123	11	350
27	2.5	16	STCC	7.56	9.64	0.103	0.123	10	350
7G	2.5	-	STCC	7.56	9.64	0.103	0.123	16.5	350
2	4	6	STCC	4.7	5.99	0.096	0.115	34	560
3	4	6	STCC	4.7	5.99	0.096	0.115	28	560
4	4	6	STCC	4.7	5.99	0.096	0.115	28	560
5	4	6	STCC	4.7	5.99	0.096	0.115	23.5	560
3G	4	-	STCC	4.7	5.99	0.096	0.115	34	560
5G	4	-	STCC	4.7	5.99	0.096	0.115	28	560
2	6	6	STCC	3.11	3.97	0.090	0.108	44	840
3	6	6	STCC	3.11	3.97	0.090	0.108	36	840
4	6	6	STCC	3.11	3.97	0.090	0.108	36	840
4G	6	-	STCC	3.11	3.97	0.090	0.108	36	840
3G	6	-	STCC	3.11	3.97	0.090	0.108	44	840
5G	6	-	STCC	3.11	3.97	0.090	0.108	36	840
2	10	10	STCC	1.84	2.35	0.084	0.101	61	1400
3	10	10	STCC	1.84	2.35	0.084	0.101	50	1400
4	10	10	STCC	1.84	2.35	0.084	0.101	50	1400
3G	10	-	STCC	1.84	2.35	0.084	0.101	61	1400
5G	10	-	STCC	1.84	2.35	0.084	0.101	50	1400
4G	10	-	STCC	1.84	2.35	0.084	0.101	50	1400
2	16	16	STCC	1.16	1.48	0.080	0.096	80	2240
3	16	16	STCC	1.16	1.48	0.080	0.096	67	2240



Number of elements	Cross section core, mm <sup>2</sup>	Cross section screen, mm <sup>2</sup>	Conductor type 2	Max. conductor resistance at 20°C, Ohm/km	Max. conductor resistance at 90°C, Ohm/km	Reactance at 50Hz, Ohm/km	Reactance at 60Hz, Ohm/km	Current rating IEC 60092-352 Table B.4, Ampere	Short circuit rating 1 second, Ampere
4	16	16	STCC	1.16	1.48	0.080	0.096	67	2240
4G	16	-	STCC	1.16	1.48	0.080	0.096	67	2240
5G	16	-	STCC	1.16	1.48	0.080	0.096	67	2240
3G	16	-	STCC	1.16	1.48	0.080	0.096	80	2240
2	25	16	STCC	0.734	0.936	0.079	0.095	108	3500
3	25	16	STCC	0.734	0.936	0.079	0.095	89	3500
4	25	16	STCC	0.734	0.936	0.079	0.095	89	3500
4G	25	-	STCC	0.734	0.936	0.079	0.095	89	3500
3G	25	-	STCC	0.734	0.936	0.079	0.095	108	3500
5G	25	-	STCC	0.734	0.936	0.079	0.095	89	3500
2	35	16	STCC	0.529	0.675	0.076	0.092	133	4900
3	35	16	STCC	0.529	0.675	0.076	0.092	110	4900
4	35	16	STCC	0.529	0.675	0.076	0.092	110	4900
4G	35	-	STCC	0.529	0.675	0.076	0.092	110	4900
5G	35	-	STCC	0.529	0.675	0.076	0.092	110	4900
3	50	25	STCC	0.391	0.499	0.076	0.092	137	7000
4	50	25	STCC	0.391	0.499	0.076	0.092	137	7000
4G	50	-	STCC	0.391	0.499	0.076	0.092	137	7000
5G	50	-	STCC	0.391	0.499	0.076	0.092	137	7000
2	70	35	STCC	0.27	0.344	0.075	0.091	206	9800
3	70	35	STCC	0.27	0.344	0.074	0.088	169	9800
4	70	35	STCC	0.27	0.344	0.075	0.091	169	9800
4G	70	-	STCC	0.27	0.344	0.075	0.091	169	9800
5G	70	-	STCC	0.27	0.344	0.075	0.091	169	9800
5	70	35	STCC	0.27	0.344	0.075	0.091	141.5	9800
2	95	50	STCC	0.195	0.249	0.073	0.088	249	13300
3	95	50	STCC	0.195	0.249	0.073	0.088	205	13300
4	95	50	STCC	0.195	0.249	0.073	0.088	205	13300
4G	95	-	STCC	0.195	0.249	0.073	0.088	205	13300
5G	120	-	STCC	0.154	0.196	0.072	0.086	237	16800
2	120	60	STCC	0.154	0.196	0.072	0.086	288	16800
3	120	60	STCC	0.154	0.196	0.072	0.086	237	16800
3	150	60	STCC	0.126	0.161	0.072	0.087	272	21000
4	120	60	STCC	0.154	0.196	0.072	0.086	237	16800
4G	120	-	STCC	0.154	0.196	0.072	0.086	237	16800
3	185	50	STCC	0.1	0.128	0.072	0.086	311	25900
4G	150	-	STCC	0.126	0.161	0.072	0.087	272	21000
4G	185	-	STCC	0.1	0.128	0.072	0.086	311	25900
3	240	50	STCC	0.0762	0.0972	0.072	0.086	365	33600
4G	240	-	STCC	0.0762	0.0972	0.080	0.095	365	33600
4	185	95	STCC	0.1	0.1275	0.081	0.098	311	25900
4	240	120	STCC	0.0762	0.0972	0.080	0.095	365	33600

### Ambient temperature correction factors

Ambient Temp °C	35	40	45	50	55	60	65	70	75	80
Rating factor	1.10	1.05	1.00	0.94	0.88	0.82	0.74	0.67	0.58	0.47

### Installation recommendations

Minimum Bending Radius during Installation	Minimum Bending Radius Fixed Installed	Maximum Tensile Load During Installation	Minimum Installation Temperature
8 x D	6 x D	50 N /mm <sup>2</sup>	-20°C



**Halogen-free, mud resistant power cable RFOU 0,6/1kV, P1/P8, double braided**

Flame retardant halogen-free power cable.  
Mud resistant

# RFOU 0,6/1kV

EPR/EPR/TCWB/EVA

NEK 606 CodeP1/P8



Operating temperature : 90°C  
Operating Voltage : 0,6/1kV

### Application

Fixed installation for power, control and lighting in both EX- and safe areas, general purposes. For installation in areas exposed to MUD and drilling/cleaning fluids.

### Standards applied

IEC 60092-353	- Design
IEC 60228 class 2	- Conductor
IEC 60092-351	- Insulation
IEC 60092-359	- Sheath
IEC 60332-1	- Flame Retardant
IEC 60332-3-22	- Flame Retardant
IEC 60754-1,2	- Halogen Free
IEC 61034-1,2	- Low Smoke

### Construction

	Code Letter	
<b>Conductor</b>		Tinned annealed stranded circular copper (STCC), IEC 60228 class 2
<b>Insulation</b>	<b>R</b>	EP-rubber, IEC 60092-351 (EPR)
<b>Lay up / Shielding</b>		Cores laid up in concentric layers
<b>Inner covering</b>	<b>F</b>	Flame retardant and halogen-free thermoset compound
<b>Tape over inner covering</b>		PET tape + rubberized Polyamide tape
<b>Armour/screen</b>	<b>O</b>	Two layers of tinned copper wire braid (double braid)
<b>Tape over armour/screen</b>		PET tape + rubberized Polyamide tape
<b>Outer sheath</b>	<b>U</b>	Flame retardant, halogen-free and mud resistant thermoset compound, SHF2 (IEC 60092-359)
<b>Marking text</b>		E.g. "meter" "år" DRAKA NORSK KABEL RFOU 0,6/1kV P1/P8 3 x 185/95 mm <sup>2</sup> IEC 60332-3-22 ETL Classified No. 3067229
<b>Outer sheath colour</b>		Black

## Core identification power cables

Single core	Grey (Offwhite)
Two cores	Grey (Offwhite) - Black
Three cores	Grey (Offwhite) - Black - Red
Four cores	Grey (Offwhite) - Black - Red - Blue
Five cores	Grey (Offwhite) - Black - Red - Blue - Black
Above five cores	Black numbers on white base
Separate earth core	Yellow/green
G / x in cable description	G = one of the core are yellow/green - x = no yellow/green core

From Q3 2007 the core colours on RFOU, BFOU, RU and BU 0,6/1kV will be changed to follow Cenelec HD 308S2 colours:

Single core	Black
Two cores	Blue - Brown
Two cores + earth	Blue - Brown - Yellow/green
Three cores	Brown - Black - Grey
Three cores + earth	Brown - Black - Grey - Yellow/green
Four cores	Blue - Brown - Black - Grey
Four cores + earth	Blue - Brown - Black - Grey - Yellow/green
Five cores	Blue - Brown - Black - Grey - Black
Above five cores	Black numbers on white base

## Range and dimensions

Number of elements	Cross section core, mm <sup>2</sup>	Cross section screen, mm <sup>2</sup>	Conductor Diameter, mm	Insulation Thickness, mm	Thickness Inner covering, mm	Diameter inner covering, mm	Diameter Braid Wire, mm	Thickness Outer Sheath, mm	Diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)	Copper content Approx. (kg/km)
3	185	95	17.70	2.0	1.6	50.5 ± 2.5	0.5	2.7	59.5 ± 2.5	9220	6278
3	150	70	15.9	1.8	1.6	45.5 ± 2	0.4	2.6	54 ± 2.5	7380	4904
4	150	70	15.9	1.8	2	51.5 ± 2.5	0.4	2.8	60.5 ± 3	9310	6288
3	240	120	20.15	2.2	1.8	57.5 ± 2.5	0.6	3	67.5 ± 3	11820	8063

## Ordering information

Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.
800093	RFOU 0.6/1kV 3X 185/95 P1/P8	BLACK	-	7021528000931	-
800102	RFOU 0.6/1kV 3X 150/70 P1/P8	BLACK	-	7021528001020	1044252
800109	RFOU 0.6/1kV 4X 150/70 P1/P8	BLACK	-	7021528001099	-
800112	RFOU 0.6/1kV 3X 240/120 P1/P8	BLACK	-	7021528001129	-

## Electrical values power cables

Number of elements	Cross section core, mm <sup>2</sup>	Cross section screen, mm <sup>2</sup>	Conductor type 2	Max. conductor resistance at 20°C, Ohm/km	Max. conductor resistance at 90°C, Ohm/km	Reactance at 50Hz, Ohm/km	Reactance at 60Hz, Ohm/km	Current rating IEC 60092-352 Table B.4, Ampere	Short circuit rating 1 second, Ampere
3	185	95	STCC	0.1	0.128	0.072	0.086	311	25900
3	150	70	STCC	0.126	0.161	0.072	0.087	272	21000
4	150	70	STCC	0.126	0.161	0.072	0.087	272	21000
3	240	120	STCC	0.0762	0.0972	0.072	0.086	365	33600

**Ambient temperature correction factors**

Ambient Temp °C	35	40	45	50	55	60	65	70	75	80
Rating factor	1.10	1.05	1.00	0.94	0.88	0.82	0.74	0.67	0.58	0.47

**Installation recommendations**

Minimum Bending Radius during Installation	Minimum Bending Radius Fixed Installed	Maximum Tensile Load During Installation	Minimum Installation Temperature
8 x D	6 x D	50 N /mm <sup>2</sup>	-20°C

## Halogen-free, mud resistant power cable RFOU 0,6/1kV, P1/P8, large single core cables

Flame retardant halogen-free power cable.  
Mud resistant

### RFOU 0,6/1kV

EPR/EPR/TCWB/EVA

NEK 606 CodeP1/P8



Operating temperature : 90°C  
Operating Voltage : 0,6/1kV

#### Application

Fixed installation for power, control and lighting in both EX- and safe areas, general purposes. For installation in areas exposed to MUD and drilling/cleaning fluids.

#### Standards applied

IEC 60092-353/60502-1	- Design
IEC 60228 class 2	- Conductor
IEC 60092-351	- Insulation
IEC 60092-359	- Sheath
IEC 60332-1	- Flame Retardant
IEC 60332-3-22	- Flame Retardant
IEC 60754-1,2	- Halogen Free
IEC 61034-1,2	- Low Smoke

#### Construction

	Code Letter	
Conductor		Tinned annealed stranded circular copper (STCC), IEC 60228 class 2
Insulation	R	EP-rubber, IEC 60092-351 (EPR)
Lay up / Shielding		Cores laid up in concentric layers
Inner covering	F	Flame retardant and halogen-free thermoset compound
Tape over inner covering		PET tape
Armour/screen	O	Tinned annealed copper wire braid
Tape over armour/screen		PET tape
Outer sheath	U	Flame retardant, halogen-free and mud resistant thermoset compound, SHF2 (IEC 60092-359)
Marking text		E.g. "meter" "year" DRAKA NORSK KABEL RFOU 0,6/1KV P1/P8 1 x 500/25 mm <sup>2</sup> IEC 60332-3-22
Outer sheath colour		Black

## Core identification power cables

Single core	Grey (Offwhite)
Two cores	Grey (Offwhite) - Black
Three cores	Grey (Offwhite) - Black - Red
Four cores	Grey (Offwhite) - Black - Red - Blue
Five cores	Grey (Offwhite) - Black - Red - Blue - Black
Above five cores	Black numbers on white base
Separate earth core	Yellow/green
G / x in cable description	G = one of the core are yellow/green - x = no yellow/green core

From Q3 2007 the core colours on RFOU, BFOU, RU and BU 0,6/1kV will be changed to follow Cenelec HD 308S2 colours:

Single core	Black
Two cores	Blue - Brown
Two cores + earth	Blue - Brown - Yellow/green
Three cores	Brown - Black - Grey
Three cores + earth	Brown - Black - Grey - Yellow/green
Four cores	Blue - Brown - Black - Grey
Four cores + earth	Blue - Brown - Black - Grey - Yellow/green
Five cores	Blue - Brown - Black - Grey - Black
Above five cores	Black numbers on white base

## Range and dimensions

Number of elements	Cross section core, mm <sup>2</sup>	Cross section screen, mm <sup>2</sup>	Conductor Diameter, mm	Insulation Thickness, mm	Thickness Inner covering, mm	Diameter inner covering, mm	Diameter Braid Wire, mm	Thickness Outer Sheath, mm	Diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)	Copper content Approx. (kg/km)
1	400	25	26.00	2.4	1.4	34.5 ± 1.5	0.4	2.1	40.5 ± 2	5060	3936
1	500	25	29.0	2.4	1.4	37.5 ± 1.5	0.4	2.2	44 ± 2	6180	4894
1	630	25	32.80	2.4	1.4	41.5 ± 2	0.4	2.3	48 ± 2	7620	6167

## Ordering information

Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.
800011	RFOU 0.6/1kV 1X 400/25 P1/P8	BLACK	-	7021528000115	-
800012	RFOU 0.6/1kV 1X 500/25 P1/P8	BLACK	-	7021528000122	-
800013	RFOU 0.6/1kV 1X 630/25 P1/P8	BLACK	-	7021528000139	-

## Electrical values power cables

Number of elements	Cross section core, mm <sup>2</sup>	Cross section screen, mm <sup>2</sup>	Conductor type 2	Max. conductor resistance at 20°C, Ohm/km	Max. conductor resistance at 90°C, Ohm/km	Reactance at 50Hz, Ohm/km	Reactance at 60Hz, Ohm/km	Current rating IEC 60092-352 Table B.4, Ampere	Short circuit rating 1 second, Ampere
1	400	25	STCC	0.0475	0.0606	0.087	0.104	690 dc / 670 ac	56000
1	500	25	STCC	0.0369	0.0471	0.085	0.103	780 dc / 720 ac	70000
1	630	25	STCC	0.0286	0.0365	0.083	0.100	890 dc / 780 ac	88200

**Ambient temperature correction factors**

Ambient Temp °C	35	40	45	50	55	60	65	70	75	80
Rating factor	1.10	1.05	1.00	0.94	0.88	0.82	0.74	0.67	0.58	0.47

**Installation recommendations**

Minimum Bending Radius during Installation	Minimum Bending Radius Fixed Installed	Maximum Tensile Load During Installation	Minimum Installation Temperature
8 x D	6 x D	50 N /mm <sup>2</sup>	-20°C

**Halogen-free, mud resistant HV power cable, RFOU 6/10(12)kV, P3/P10**

Flame retardant halogen-free medium voltage (MV) cable. Mud resistant

**RFOU 6/10(12) kV**

EPR/EPR/TCWB/EVA

NEK 606 CodeP3/P10



**Operating temperature** : 90°C  
**Operating Voltage** : 6/10(12) kV

**Application**

Fixed installation for medium voltage (MV) power in both EX- and safe areas, general purposes. For installation in areas exposed to MUD and drilling/cleaning fluids.

**Standards applied**

IEC 60092-354	- Design
IEC 60228 class 2	- Conductor
IEC 60092-351	- Insulation
IEC 60092-359	- Sheath
IEC 60332-1	- Flame Retardant
IEC 60332-3-22	- Flame Retardant
IEC 600754-1,2	- Halogen Free
IEC 61034-1,2	- Low Smoke

**Construction**

	Code Letter	
<b>Conductor</b>		Tinned stranded and compressed copper (STCC), IEC 60228 class 2
<b>Conductor screen semiconductive</b>		Semiconductive layer (EP-rubber)
<b>Insulation</b>	<b>R</b>	EP-rubber, IEC 60092-351 (EPR)
<b>Insulation screen semiconductive</b>		Semiconductive layer (EP-rubber)
<b>Lay up / Shielding</b>		Cores are laid up together. Cores are identified by White, Black or Red threads under and over the metallic screen on each conductor.
<b>Inner covering</b>	<b>F</b>	Flame retardant and halogen-free thermoset compound
<b>Tape over inner covering</b>		PET tape
<b>Armour/screen</b>	<b>O</b>	Tinned annealed copper wire braid
<b>Tape over armour/screen</b>		PET tape
<b>Outer sheath</b>	<b>U</b>	Flame retardant, halogen-free and mud resistant thermoset compound, SHF2 (IEC 60092-359)
<b>Marking text</b>		E.g. "meter" "year" DRAKA NORSK KABEL RFOU 6/10(12)KV P3/P10 3 x 95/50 mm2 IEC 60332-3-22
<b>Outer sheath colour</b>		Red



## Range and dimensions

Number of elements	Cross section core, mm <sup>2</sup>	Cross section screen, mm <sup>2</sup>	Conductor Diameter, mm	Insulation Thickness, mm	Thickness Inner covering, mm	Diameter inner covering, mm	Diameter Braid Wire, mm	Thickness Outer Sheath, mm	Diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)	Copper content Approx. (kg/km)
1	16	11	5.2	3.4	1.0	18.5 ±1.0	0.3	1.6	24.0 ± 1,5	900	420
1	25	11	6.5	3.4	1.0	20,0 ±1.0	0.3	1.7	25.0 ± 1,5	1100	516
1	35	11	7.4	3.4	1.0	21.0 ± 1.5	0.3	1.7	26.0± 1.5	1200	611
1	50	11	8.8	3.4	1.0	22.0 ± 1.0	0.3	1.9	28.0 ± 1.5	1450	780
1	70	16	10.3	3.4	1.0	23.5 ±1.5	0.3	1.9	30.0 ± 2.0	1700	971
1	95	16	12.1	3.4	1.2	25.5 ±1.5	0.3	2.0	32.0 ± 2.0	2100	1251
1	120	20	13.6	3.4	1.2	27.5 ± 1.5	0.3	2.0	34.0 ± 2.0	2350	1506
1	150	19	15.1	3.4	1.2	28.5 ±1.5	0.3	2.0	35.0 ± 2.0	2600	1793
1	185	18	16.8	3.4	1.2	30.5 ±1.5	0.3	2.1	36.5 ± 2.0	3100	2138
1	240	21	19.1	3.4	1.2	33.0 ± 1.5	0.3	2.1	39.0± 2.0	3800	2702
1	300	29	21.5	3.4	1.2	35 ±1.5	0.3	2.2	41.5 ± 2.5	4600	3395
1	400	35	24.5	3.4	1.2	36 ±1.5	0.4	2.3	45.5 ± 2.5	5900	4536
1	500	40	27.5	3.4	1.4	41.5 ± 2.0	0.4	2.5	49.5 ± 2.5	7350	5782
1	630	40	32.3	3.4	1.4	46.5 ± 2.0	0.4	2.7	54.5 ± 3.0	8750	7016
3	16	32	5.2	3.4	1.4	39.0 ± 1.5	0.4	2.4	46.0 ± 2.5	3300	1145
3	25	31	6.5	3.4	1.4	42.0 ± 1.5	0.4	2.4	49.5 ± 2.5	3800	1465
3	35	35	7.4	3.4	1.4	43.5 ± 2.0	0.4	2.5	51.5± 3.0	4300	1573
3	50	31	8.8	3.4	1.6	47.0 ± 2.0	0.4	2.8	55 ± 3	5000	2124
3	70	35	10.3	3.4	1.6	50.0 ± 2.0	0.4	2.8	58.5 ± 3	6000	2880
3	95	50	12.1	3.4	1.6	54.0 ± 2.0	0.4	2.8	62.5± 3.0	7500	3975
3	120	60	13.6	3.4	1.6	57.5 ± 2.0	0.5	3	66.5 ± 3.0	8350	4650
3	150	75	15.1	3.4	1.6	60 ± 2	0.6	3.2	70.5 ± 3	9800	5634
3	185	45	16.8	3.4	1.6	64.5 ± 2.5	0.5	3.3	74.0 ± 3.5	11300	6511
3	240	53	19.1	3.4	1.6	69.5 ± 2.5	0.5	3.5	79.5± 3.5	13300	8609
3	300	55	21.5	3.4	1.6	74.5 ± 3.0	0.5	3.7	85.0± 4.0	16300	10725



**Ordering information**

Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.
804000	RFOU 6/10KV 1X 16/11mm <sup>2</sup> P3/P	RED	-	7021528040005	-
804001	RFOU 6/10KV 1X 25/11mm <sup>2</sup> P3/P	RED	-	7021528040012	-
804002	RFOU 6/10KV 1X 35/11mm <sup>2</sup> P3/P	RED	-	7021528040029	-
804003	RFOU 6/10KV 1X 50/11mm <sup>2</sup> P3/P	RED	-	7021528040036	-
804004	RFOU 6/10KV 1X 70/16mm <sup>2</sup> P3/P	RED	-	7021528040043	-
804005	RFOU 6/10KV 1X 95/16mm <sup>2</sup> P3/P	RED	-	7021528040050	-
804006	RFOU 6/10KV 1X 120/20mm <sup>2</sup> P3/	RED	-	7021528040067	-
804007	RFOU 6/10KV 1X 150/19mm <sup>2</sup> P3/	RED	-	7021528040074	-
804008	RFOU 6/10KV 1X185/18mm <sup>2</sup> P3/P10	RED	-	7021528040081	-
804009	RFOU 6/10KV 1X 240/21mm <sup>2</sup> P3/	RED	-	7021528040098	-
804010	RFOU 6/10KV 1X 300/29mm <sup>2</sup> P3/	RED	-	7021528040104	-
804011	RFOU 6/10KV 1X 400/35mm <sup>2</sup> P3/	RED	-	7021528040111	-
804012	RFOU 6/10KV 1X 500/40mm <sup>2</sup> P3/	RED	-	7021528040128	-
804013	RFOU 6/10KV 1X 630/40mm <sup>2</sup> P3/	RED	-	7021528040135	-
804020	RFOU 6/10KV 3X 16/32mm <sup>2</sup> P3/P	RED	-	7021528040203	-
804021	RFOU 6/10KV 3X 25/31mm <sup>2</sup> P3/P	RED	-	7021528040210	-
804022	RFOU 6/10KV 3X 35/35mm <sup>2</sup> P3/P	RED	-	7021528040227	-
804023	RFOU 6/10KV 3X 50/31mm <sup>2</sup> P3/P	RED	-	7021528040234	-
804024	RFOU 6/10KV 3X 70/35mm <sup>2</sup> P3/P	RED	-	7021528040241	-
804025	RFOU 6/10KV 3X 95/50mm <sup>2</sup> P3/P	RED	-	7021528040258	-
804026	RFOU 6/10KV 3X 120/60mm <sup>2</sup> P3/	RED	-	7021528040265	-
804027	RFOU 6/10KV 3X 150/75mm <sup>2</sup> P3/	RED	-	7021528040272	-
804028	RFOU 6/10KV 3X 185/45mm <sup>2</sup> P3/	RED	-	7021528040289	-
804029	RFOU 6/10KV 3X 240/53mm <sup>2</sup> P3/	RED	-	7021528040296	-
804030	RFOU 6/10KV 3X 300/55mm <sup>2</sup> P3/	RED	-	7021528040302	-

**Electrical values power cables**

Number of elements	Cross section core, mm <sup>2</sup>	Cross section screen, mm <sup>2</sup>	Conductor type 2	Max. conductor resistance at 20°C, Ohm/km	Max. conductor resistance at 90°C, Ohm/km	Reactance at 50Hz, Ohm/km	Reactance at 60Hz, Ohm/km	Capacitans per phase, nF/km	Current rating IEC 60092-352 Table B.4, Ampere	Short circuit rating 1 second, Ampere
1	16	11	STCC	1.16	1.48	0.154	0.185	220	96	2240
1	25	11	STCC	0.734	0.936	0.144	0.173	250	127	3500
1	35	11	STCC	0.529	0.675	0.138	0.166	270	157	4900
1	50	11	STCC	0.391	0.499	0.132	0.158	300	196	7000
1	70	16	STCC	0.270	0.344	0.125	0.150	340	242	9800
1	95	16	STCC	0.195	0.249	0.119	0.142	380	293	13300
1	120	20	STCC	0.154	0.196	0.116	0.139	410	339	16800
1	150	19	STCC	0.126	0.161	0.111	0.133	450	389	21000
1	185	18	STCC	0.100	0.128	0.108	0.130	480	444	25900
1	240	21	STCC	0.0762	0.0972	0.104	0.125	540	522	33600
1	300	29	STCC	0.0607	0.0774	0.104	0.124	590	601	42000
1	400	35	STCC	0.0475	0.0606	0.090	0.118	660	690 dc / 670 ac	56000
1	500	40	STCC	0.0369	0.0471	0.097	0.117	720	780 dc / 720 ac	70000
1	630	40	STCC	0.0286	0.0365	0.092	0.110	840	890 dc / 780 ac	88200
3	16	32	STCC	1.16	1.48	0.119	0.143	220	67	2240
3	25	31	STCC	0.734	0.936	0.119	0.143	250	89	3500
3	35	35	STCC	0.529	0.675	0.114	0.137	270	110	4900
3	50	31	STCC	0.391	0.499	0.108	0.130	300	137	7000
3	70	35	STCC	0.270	0.344	0.103	0.124	340	169	9800

Number of elements	Cross section core, mm <sup>2</sup>	Cross section screen, mm <sup>2</sup>	Conductor type 2	Max. conductor resistance at 20°C, Ohm/km	Max. conductor resistance at 90°C, Ohm/km	Reactance at 50Hz, Ohm/km	Reactance at 60Hz, Ohm/km	Capacitance per phase, nF/km	Current rating IEC 60092-352 Table B.4, Ampere	Short circuit rating 1 second, Ampere
3	95	50	STCC	0.195	0.249	0.098	0.118	380	205	13300
3	120	60	STCC	0.154	0.196	0.095	0.114	410	237	16800
3	150	75	STCC	0.126	0.161	0.092	0.111	450	272	21000
3	185	45	STCC	0.100	0.128	0.092	0.111	480	311	25900
3	240	53	STCC	0.0762	0.0972	0.087	0.104	540	365	33600
3	300	55	STCC	0.0607	0.0774	0.084	0.101	590	421	42000

#### Ambient temperature correction factors

Ambient Temp °C	35	40	45	50	55	60	65	70	75	80
Rating factor	1.10	1.05	1.00	0.94	0.88	0.82	0.74	0.67	0.58	0.47

#### Installation recommendations

Minimum Bending Radius during Installation	Minimum Bending Radius Fixed Installed	Maximum Tensile Load During Installation	Minimum Installation Temperature
15 x D	9 x D	50 N /mm <sup>2</sup>	-20°C

**Halogen-free, mud resistant HV power cable, RFOU 12/20(24)kV, P19/P21**

Flame retardant halogen-free medium voltage (MV) cable. Mud resistant

**RFOU 12/20(24) kV**

EPR/EPR/TCWB/EVA

NEK 606 CodeP19/P21



**Operating temperature** : 90°C  
**Operating Voltage** : 12/20(24) kV

**Application**

Fixed installation for medium voltage (MV) power in both EX- and safe areas, general purposes. For installation in areas exposed to MUD and drilling/cleaning fluids.

**Standards applied**

IEC 60092-354	- Design
IEC 60228 class 2	- Conductor
IEC 60092-351	- Insulation
IEC 60092-359	- Sheath
IEC 60332-1	- Flame Retardant
IEC 60332-3-22	- Flame Retardant
IEC 600754-1,2	- Halogen Free
IEC 61034-1,2	- Low Smoke

**Construction**

	Code Letter	
<b>Conductor</b>		Tinned stranded and compressed copper (STCC), IEC 60228 class 2
<b>Conductor screen semiconductive</b>		Semiconductive layer (EP-rubber)
<b>Insulation</b>	<b>R</b>	EP-rubber, IEC 60092-351 (EPR)
<b>Insulation screen semiconductive</b>		Semiconductive layer (EP-rubber)
<b>Lay up / Shielding</b>		Cores are laid up together. Cores are identified by White, Black or Red threads under and over the metallic screen on each conductor.
<b>Inner covering</b>	<b>F</b>	Flame retardant and halogen-free thermoset compound
<b>Tape over inner covering</b>		PET tape
<b>Armour/screen</b>	<b>O</b>	Tinned annealed copper wire braid
<b>Tape over armour/screen</b>		PET tape
<b>Outer sheath</b>	<b>U</b>	Flame retardant, halogen-free and mud resistant thermoset compound, SHF2 (IEC 60092-359)
<b>Marking text</b>		E.g. "meter" "year" DRAKA NORSK KABEL RFOU 12/20(24)KV P19/P21 3 x 95/50 mm <sup>2</sup> IEC 60332-3-22
<b>Outer sheath colour</b>		Red

**Range and dimensions**

Number of elements	Cross section core, mm <sup>2</sup>	Cross section screen, mm <sup>2</sup>	Conductor Diameter, mm	Insulation Thickness, mm	Thickness Inner covering, mm	Diameter inner covering, mm	Diameter Braid Wire, mm	Thickness Outer Sheath, mm	Diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)	Copper content Approx. (kg/km)
1	16	13	5.2	5.5	1.0	22.5 ±1.0	0.3	1.6	28 ± 1.5	1200	495
1	25	13	6.5	5.5	1.0	24 ±1.0	0.3	1.7	29.5 ± 1.5	1300	561
1	35	13	7.4	5.5	1.2	25 ±1.5	0.3	1.8	31 ± 2	1450	671
1	50	15	8.8	5.5	1.2	26.5 ±1.5	0.3	2.0	32.5 ± 2	1700	811
1	70	13	10.3	5.5	1.2	28 ± 1.5	0.3	2.1	34 ± 2.0	2000	1001
1	95	17	12.1	5.5	1.2	30 ±1.5	0.3	2.1	36 ± 2	2400	1210
1	120	15	13.6	5.5	1.3	31.5 ±1.5	0.3	2.1	38 ± 2	2650	1491
1	150	15	15.1	5.5	1.3	33 ±1.5	0.3	2.2	40 ± 2.5	3000	1835
1	185	18	16.8	5.5	1.4	35 ±1.5	0.3	2.2	41.5 ± 2.5	3500	2201
1	240	23	19.1	5.5	1.4	37.5 ±1.5	0.3	2.4	45.0 ± 2.5	4350	2915
1	300	28	21.5	5.5	1.4	41.0 ±2.0	0.3	2.6	47.0 ± 3.0	5200	3640
3	16	31	5.2	5.5	1.4	48 ± 2.0	0.4	2.6	55.5 ± 3.0	9300	4112
3	25	35	6.5	5.5	1.4	51 ± 2.0	0.4	2.7	58.5 ± 3.0	4950	1558
3	35	35	7.4	5.5	1.4	53 ± 2.0	0.4	2.8	61 ± 3.0	5500	1885
3	50	35	8.8	5.5	1.8	57.0 ± 2.0	0.4	3.0	65.5 ± 3.5	6500	2276
3	70	35	10.3	5.5	1.8	60 ± 2.5	0.4	3.1	68.5 ± 3.5	7500	2979
3	95	50	12.1	5.5	2.0	64.5 ± 3.0	0.5	3.3	73.5 ± 4.0	9300	4112
3	120	60	13.6	5.5	2.0	67.5 ± 3.0	0.5	3.4	77 ± 4.0	10250	4761
3	150	75	15.1	5.5	2.0	71.0 ± 3.0	0.5	3.5	80.0 ± 4.5	11700	5822
3	185	45	16.8	5.5	2.0	75.0 ± 3.5	0.5	3.7	85.0 ± 4.5	12950	6615
3	240	55	19.1	5.5	2.2	79.5 ± 3.5	0.5	3.9	90.0 ± 4.5	15900	8797

**Ordering information**

Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.
804100	RFOU 12/20KV 1X 16/13mm <sup>2</sup> P19	RED	-	7021528041002	-
804101	RFOU 12/20KV 1X 25/13mm <sup>2</sup> P19	RED	-	7021528041019	-
804102	RFOU 12/20KV 1X 35/13mm <sup>2</sup> P19	RED	-	7021528041026	-
804103	RFOU 12/20KV 1X 50/15mm <sup>2</sup> P19	RED	-	7021528041033	-
804104	RFOU 12/20KV 1X 70/13mm <sup>2</sup> P19	RED	-	7021528041040	-
804105	RFOU 12/20KV 1X 95/17mm <sup>2</sup> P19	RED	-	7021528041057	-
804106	RFOU 12/20KV 1X120/15mm <sup>2</sup> P19	RED	-	7021528041064	-
804107	RFOU 12/20KV 1X150/15mm <sup>2</sup> P19	RED	-	7021528041071	-
804108	RFOU 12/20KV 1X185/18mm <sup>2</sup> P19	RED	-	7021528041088	-
804109	RFOU 12/20KV 1X240/23mm <sup>2</sup> P19	RED	-	7021528041095	-
804110	RFOU 12/20KV 1X300/28mm <sup>2</sup> P19	RED	-	7021528041101	-
804120	RFOU 12/20KV 3X 16/31mm <sup>2</sup> P19	RED	-	7021528041200	-
804121	RFOU 12/20KV 3X 25/35mm <sup>2</sup> P19	RED	-	7021528041217	-
804122	RFOU 12/20KV 3X 35/35mm <sup>2</sup> P19	RED	-	7021528041224	-
804123	RFOU 12/20KV 3X 50/35mm <sup>2</sup> P19	RED	-	7021528041231	-
804124	RFOU 12/20KV 3X 70/35mm <sup>2</sup> P19	RED	-	7021528041248	-
804125	RFOU 12/20KV 3X 95/50mm <sup>2</sup> P19	RED	-	7021528041255	-

Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.
804126	RFOU 12/20KV 3X120/60mm <sup>2</sup> P19	RED	-	7021528041262	-
804127	RFOU 12/20KV 3X150/75mm <sup>2</sup> P19	RED	-	7021528041279	-
804128	RFOU 12/20KV 3X185/45mm <sup>2</sup> P19	RED	-	7021528041286	-
804129	RFOU 12/20KV 3X240/55mm <sup>2</sup> P19	RED	-	7021528041293	-

### Electrical values power cables

Number of elements	Cross section core, mm <sup>2</sup>	Cross section screen, mm <sup>2</sup>	Conductor type 2	Max. conductor resistance at 20°C, Ohm/km	Max. conductor resistance at 90°C, Ohm/km	Reactance at 50Hz, Ohm/km	Reactance at 60Hz, Ohm/km	Capacitance per phase, nF/km	Current rating IEC 60092-352 Table B.4, Ampere	Short circuit rating 1 second, Ampere
1	16	13	STCC	1.16	1.479	0.164	0.197	170	96	2240
1	25	13	STCC	0.734	0.936	0.154	0.185	190	127	3500
1	35	13	STCC	0.529	0.675	0.149	0.178	200	157	4900
1	50	15	STCC	0.391	0.499	0.140	0.169	220	196	7000
1	70	13	STCC	0.270	0.344	0.133	0.160	250	242	9800
1	95	17	STCC	0.195	0.249	0.127	0.152	270	293	13300
1	120	15	STCC	0.154	0.196	0.124	0.149	300	339	16800
1	150	15	STCC	0.126	0.161	0.119	0.142	320	389	21000
1	185	18	STCC	0.100	0.128	0.116	0.139	340	444	25900
1	240	23	STCC	0.0762	0.0972	0.112	0.134	380	522	33600
1	300	28	STCC	0.0607	0.0774	0.108	0.130	410	601	42000
3	16	31	STCC	1.16	1.48	0.143	0.172	170	67	2240
3	25	35	STCC	0.734	0.936	0.133	0.160	190	89	3500
3	35	35	STCC	0.529	0.675	0.128	0.153	200	110	4900
3	50	35	STCC	0.391	0.499	0.121	0.145	220	137	7000
3	70	35	STCC	0.270	0.344	0.115	0.135	250	169	9800
3	95	50	STCC	0.195	0.249	0.109	0.131	270	205	13300
3	120	60	STCC	0.154	0.196	0.105	0.126	300	237	16800
3	150	75	STCC	0.126	0.161	0.102	0.122	320	272	21000
3	185	45	STCC	0.100	0.128	0.099	0.118	340	311	25900
3	240	55	STCC	0.0762	0.0972	0.095	0.114	380	365	33600

### Ambient temperature correction factors

Ambient Temp °C	35	40	45	50	55	60	65	70	75	80
Rating factor	1.10	1.05	1.00	0.94	0.88	0.82	0.74	0.67	0.58	0.47

### Installation recommendations

Minimum Bending Radius during Installation	Minimum Bending Radius Fixed Installed	Maximum Tensile Load During Installation	Minimum Installation Temperature
15 x D	9 x D	50 N /mm <sup>2</sup>	-20°C

**Halogen-free, mud resistant, fire resistant power cable, BFOU 0,6/1kV, P5/P12**

Fire resistant, flame retardant  
halogen-free power cable. Mud  
resistant

# BFOU 0,6/1kV

MGT/EPR/EPR/TCWB/EVA

NEK 606 CodeP5/P12



Operating temperature : 90°C  
Operating Voltage : 0,6/1kV

### Application

Fixed installation for power, control and lighting in both EX- and safe areas, emergency and critical systems where requirement for fire resistance exists. For installation in areas exposed to MUD and drilling/cleaning fluids.

### Standards applied

IEC 60092-353	- Design
IEC 60228 class 2	- Conductor
IEC 60092-351	- Insulation
IEC 60092-359	- Sheath
IEC 60332-1	- Flame Retardant
IEC 60332-3-22	- Flame Retardant
IEC 60331-21	- Fire Resistant
IEC 60754-1,2	- Halogen Free
IEC 61034-1,2	- Low Smoke

### Construction

	Code Letter	
<b>Conductor</b>		Tinned annealed stranded circular copper (STCC), IEC 60228 class 2
<b>Insulation</b>	<b>B</b>	Mica-tape + EP-rubber, IEC 60092-351 (EPR)
<b>Lay up / Shielding</b>		Cores laid up in concentric layers
<b>Inner covering</b>	<b>F</b>	Flame retardant and halogen-free thermoplastic compound
<b>Tape over inner covering</b>		PET tape
<b>Armour/screen</b>	<b>O</b>	Tinned annealed copper wire braid
<b>Tape over armour/screen</b>		PET tape
<b>Outer sheath</b>	<b>U</b>	Flame retardant, halogen-free and mud resistant thermoset compound, SHF2 (IEC 60092-359)
<b>Marking text</b>		E.g. "meter" "år" DRAKA NORSK KABEL BFOU 0,6/1kV P5/P12 3 x 25/16 mm <sup>2</sup> FLEX - FLAME IEC 60331-21 IEC 60332-3-22 ETL Classified No. 3067229
<b>Outer sheath colour</b>		Black

## Core identification power cables

Single core	Grey (Offwhite)
Two cores	Grey (Offwhite) - Black
Three cores	Grey (Offwhite) - Black - Red
Four cores	Grey (Offwhite) - Black - Red - Blue
Five cores	Grey (Offwhite) - Black - Red - Blue - Black
Above five cores	Black numbers on white base
Separate earth core	Yellow/green
G / x in cable description	G = one of the core are yellow/green - x = no yellow/green core

From Q3 2007 the core colours on RFOU, BFOU, RU and BU 0,6/1kV will be changed to follow Cenelec HD 308S2 colours:

Single core	Black
Two cores	Blue - Brown
Two cores + earth	Blue - Brown - Yellow/green
Three cores	Brown - Black - Grey
Three cores + earth	Brown - Black - Grey - Yellow/green
Four cores	Blue - Brown - Black - Grey
Four cores + earth	Blue - Brown - Black - Grey - Yellow/green
Five cores	Blue - Brown - Black - Grey - Black
Above five cores	Black numbers on white base

## Range and dimensions

Number of elements	Cross section core, mm <sup>2</sup>	Cross section screen, mm <sup>2</sup>	Conductor Diameter, mm	Insulation Thickness, mm	Thickness Inner covering, mm	Diameter inner covering, mm	Diameter Braid Wire, mm	Thickness Outer Sheath, mm	Diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)	Copper content Approx. (kg/km)
1	16	4	5.15	1.0	1.1	10 ± 0.8	0.2	1.2	13 ± 0.8	370	196
1	25	6	6.45	1.2	1.1	11.5 ± 0.8	0.3	1.3	15.5 ± 0.8	530	312
1	50	6	9.0	1.4	1.1	15 ± 0.8	0.3	1.4	18.5 ± 0.8	860	546
1	70	6	10.85	1.4	1.1	16.5 ± 0.8	0.3	1.4	20.5 ± 1	1100	735
1	95	10	12.60	1.6	1.1	18.5 ± 0.8	0.3	1.5	23 ± 1	1420	985
1	120	10	14.20	1.6	1.2	20.5 ± 1	0.3	1.6	25 ± 1	1730	1224
1	150	10	15.90	1.8	1.2	23 ± 1	0.3	1.7	27.5 ± 1	2100	1510
1	185	10	17.70	2.0	1.2	25 ± 1	0.3	1.7	29.5 ± 1	2500	1837
1	240	16	20.15	2.2	1.2	28 ± 1	0.3	1.8	33 ± 1.5	3170	2371
1	300	16	22.60	2.4	1.2	31 ± 1.5	0.3	1.9	36 ± 1.5	3890	2975
2	1.5	4	1.6	1.0	1.1	10 ± 0.8	0.2	1.2	13 ± 0.8	285	80
3G	1.5	-	1.6	1.0	1.1	10.5 ± 0.8	0.3	1.3	14.5 ± 0.8	360	125
4G	1.5	-	1.6	1.0	1.1	11.5 ± 0.8	0.3	1.3	15.5 ± 0.8	410	155
3	1.5	6	1.6	1.0	1.1	10.5 ± 0.8	0.3	1.3	14.5 ± 0.8	360	125
4	1.5	6	1.6	1.0	1.1	11.5 ± 0.8	0.3	1.3	15.5 ± 0.8	410	155
5	1.5	6	1.6	1.0	1.1	13 ± 0.8	0.3	1.4	16.5 ± 0.8	480	169
7	1.5	6	1.6	1.0	1.1	14 ± 0.8	0.3	1.4	18 ± 0.8	560	214
12	1.5	10	1.6	1.0	1.2	18.5 ± 0.8	0.3	1.6	23 ± 1	830	316
19	1.5	10	1.6	1.0	1.2	22 ± 1	0.3	1.7	26.5 ± 1	1130	438
27	1.5	16	1.6	1.0	1.2	26.5 ± 1	0.3	1.9	31.5 ± 1.5	1500	574
37	1.5	16	1.6	1.0	1.4	30 ± 1.5	0.3	2	35.5 ±	1950	738



Number of elements	Cross section core, mm <sup>2</sup>	Cross section screen, mm <sup>2</sup>	Conductor Diameter, mm	Insulation Thickness, mm	Thickness Inner covering, mm	Diameter inner covering, mm	Diameter Braid Wire, mm	Thickness Outer Sheath, mm	Diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)	Copper content Approx. (kg/km)
5G	1.5	-	1.6	1.0	1.1	13 ± 0.8	0.3	1.4	1.5 16.5 ± 0.8	480	169
32	1.5	16	1.6	1.0	1.4	29 ± 1	0.3	2	34.5 ± 1.5	1800	668
7G	2.5	-	2.0	1.0	1.1	15 ± 0.8	0.3	1.4	19 ± 0.8	640	276
2	2.5	6	2.0	1.0	1.1	11 ± 0.8	0.3	1.3	14.5 ± 0.8	370	129
3G	2.5	-	2.0	1.0	1.1	11.5 ± 0.8	0.3	1.3	15 ± 0.8	420	168
3	2.5	6	2.0	1.0	1.1	11.5 ± 0.8	0.3	1.3	15 ± 0.8	420	168
4G	2.5	-	2.0	1.0	1.1	12.5 ± 0.8	0.3	1.3	16.5 ± 0.8	470	191
4	2.5	6	2.0	1.0	1.1	12.5 ± 0.8	0.3	1.3	16.5 ± 0.8	470	191
8G	2.5	-	2.0	1.0	1.1	19.5 ± 0.8	0.3	1.5	23.5 ± 1	790	332
7	2.5	6	2.0	1.0	1.1	15 ± 0.8	0.3	1.4	19 ± 0.8	650	277
12	2.5	10	2.0	1.0	1.2	20.5 ± 1	0.3	1.6	24.5 ± 1	990	425
19	2.5	10	2.0	1.0	1.2	24 ± 1	0.3	1.8	28.5 ± 1	1380	611
27	2.5	16	2.0	1.0	1.4	29.5 ± 1	0.3	2	34.5 ± 1.5	1920	842
37	2.5	25	2.0	1.0	1.4	33 ± 1.5	0.4	2.2	39 ± 1.5	2570	1200
5G	2.5	-	2.0	1.0	1.1	14 ± 0.8	0.3	1.4	18 ± 0.8	570	230
4G	4	-	2.55	1.0	1.1	14 ± 0.8	0.3	1.4	18 ± 0.8	610	263
5G	4	-	2.55	1.0	1.1	15.5 ± 0.8	0.3	1.4	19.5 ± 0.8	700	299
2	4	6	2.55	1.0	1.1	12 ± 0.8	0.3	1.3	15.5 ± 0.8	450	173
3	4	6	2.55	1.0	1.1	13 ± 0.8	0.3	1.3	16.5 ± 0.8	510	209
4	4	6	2.55	1.0	1.1	14 ± 0.8	0.3	1.4	18 ± 0.8	610	263
3G	4	-	2.55	1.0	1.1	13 ± 0.8	0.3	1.3	16.5 ± 0.8	510	209
2	6	6	3.15	1.0	1.1	13 ± 0.8	0.3	1.4	17 ± 0.8	530	209
3	6	6	3.15	1.0	1.1	14 ± 0.8	0.3	1.4	18 ± 0.8	620	280
4	6	6	3.15	1.0	1.1	15.5 ± 0.8	0.3	1.4	19.5 ± 0.8	720	334
3G	6	-	3.15	1.0	1.1	14 ± 0.8	0.3	1.4	18 ± 0.8	620	280
4G	6	-	3.15	1.0	1.1	15.5 ± 0.8	0.3	1.4	19.5 ± 0.8	720	334
5G	6	-	3.15	1.0	1.1	17 ± 0.8	0.3	1.5	21.5 ± 1	880	405
2	10	10	4.05	1.0	1.1	15 ± 0.8	0.3	1.4	19 ± 0.8	680	298
3	10	10	4.05	1.0	1.1	16 ± 0.8	0.3	1.5	20 ± 1	800	389
4	10	10	4.05	1.0	1.1	18 ± 0.8	0.3	1.5	22 ± 1	960	494
3G	10	-	4.05	1.0	1.1	16 ± 0.8	0.3	1.5	20 ± 1	800	387
4G	10	-	4.05	1.0	1.1	18 ± 0.8	0.3	1.5	22 ± 1	960	494
5G	10	-	4.05	1.0	1.2	20 ± 1	0.3	1.6	24 ± 1	1170	600
2	16	16	5.15	1.0	1.1	17.5 ± 0.8	0.5	1.5	22 ± 1	990	497
3	16	16	5.15	1.0	1.1	18.5 ± 0.8	0.4	1.5	23 ± 1	1170	655
4	16	16	5.15	1.0	1.2	20.5 ± 1	0.4	1.6	25.5 ± 1	1400	799
3G	16	-	5.15	1.0	1.1	18.5 ± 0.8	0.3	1.5	22.5 ± 1	1090	583
5G	16	-	5.15	1.0	1.2	23 ± 1	0.3	1.7	27.5 ± 1	1610	896
2	25	16	6.45	1.2	1.2	21 ± 1	0.4	1.6	25.5 ± 1	1350	680



Number of elements	Cross section core, mm <sup>2</sup>	Cross section screen, mm <sup>2</sup>	Conductor Diameter, mm	Insulation Thickness, mm	Thickness Inner covering, mm	Diameter inner covering, mm	Diameter Braid Wire, mm	Thickness Outer Sheath, mm	Diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)	Copper content Approx. (kg/km)
3	25	16	6.45	1.2	1.2	22.5 ± 1	0.3	1.7	27 ± 1	1600	887
4	25	16	6.45	1.2	1.2	25 ± 1	0.3	1.8	29.5 ± 1	1950	1116
4G	25	-	6.45	1.2	1.2	25 ± 1	0.3	1.8	29.5 ± 1	1930	1091
5G	25	-	6.45	1.2	1.2	27.5 ± 1	0.3	1.8	32 ± 1.5	2290	1345
2	35	16	7.65	1.2	1.2	23.5 ± 1	0.3	1.7	28 ± 1	1630	817
3	35	16	7.65	1.2	1.2	25 ± 1	0.3	1.8	30 ± 1.5	1990	1125
4	35	16	7.65	1.2	1.2	28 ± 1	0.3	1.9	33 ± 1.5	2440	1434
4G	35	-	7.65	1.2	1.2	28 ± 1	0.3	1.9	33 ± 1.5	2440	1434
5G	35	-	7.65	1.2	1.4	31 ± 1.5	0.3	2	36.5 ± 1.5	2980	1768
3	50	25	9.0	1.4	1.2	29 ± 1	0.4	1.9	34.5 ± 1.5	2710	1602
4	50	25	9.0	1.4	1.4	32.5 ± 1.5	0.4	2	38 ± 1.5	3350	2033
5G	50	-	9.0	1.4	1.4	36 ± 1.5	0.4	2.2	42 ± 2	4090	2508
4G	50	-	9.0	1.4	1.4	32.5 ± 1.5	0.3	2	38 ± 1.5	3260	1949
2	70	35	10.85	1.4	1.4	31 ± 1.5	0.6	2	37.5 ± 1.5	3120	1756
3	70	35	10.85	1.4	1.4	33 ± 1.5	0.5	2	39 ± 1.5	3730	2347
4	70	35	10.85	1.4	1.4	37 ± 1.5	0.4	2.2	43 ± 2	4550	2926
4G	70	-	10.85	1.4	1.4	37 ± 1.5	0.4	2.2	43 ± 2	4460	2837
5G	70	-	10.85	1.4	1.4	41 ± 2	0.4	2.3	47 ± 2	5380	3503
3	95	50	12.60	1.6	1.4	38 ± 1.5	0.6	2.2	44.5 ± 2	4910	3133
4	95	50	12.60	1.6	1.6	42.5 ± 2	0.5	2.4	49.5 ± 2	6090	3975
4G	95	-	12.60	1.6	1.6	42.5 ± 2	0.4	2.4	49 ± 2	5860	3748
5G	95	-	12.60	1.6	1.6	47 ± 2	0.4	2.6	54 ± 2.5	7130	4630
3	120	60	14.20	1.6	1.4	41 ± 2	0.6	2.4	48.5 ± 2	6050	3999
4	120	60	14.20	1.6	1.6	46 ± 2	0.6	2.5	53.5 ± 2.5	7440	5030
4G	120	-	14.20	1.6	1.6	46 ± 2	0.4	2.5	53 ± 2.5	7140	4753
4G	150	-	15.90	1.8	1.6	52 ± 2.5	0.5	2.7	59.5 ± 2.5	8810	5852
4G	150	-	-	1.8	-	-	-	-	-	8800	5801
4G	185	-	17.70	2.0	1.8	57.5 ± 2.5	0.5	2.9	65.5 ± 3	10810	7248
3	240	120	19.1	2.2	2.0	56.0 ± 2.0	0.7	3.0	65.0 ± 3.0	11700	8601

### Ordering information

Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.
800200	BFOU 0.6/1kV 1X 16/4mm <sup>2</sup> P5/P12	BLACK	-	7021528002003	-
800201	BFOU 0.6/1kV 1X 25/6mm <sup>2</sup> P5/P12	BLACK	-	7021528002010	-
800203	BFOU 0.6/1kV 1X 50/6mm <sup>2</sup> P5/P12	BLACK	Yes	7021528002034	1043608
800204	BFOU 0.6/1kV 1X 70/6mm <sup>2</sup> P5/P12	BLACK	-	7021528002041	1043609
800205	BFOU 0.6/1kV 1X 95/10 P5/P12	BLACK	Yes	7021528002058	-
800206	BFOU 0.6/1kV 1X 120/10 P5/P12	BLACK	-	7021528002065	1043611
800207	BFOU 0.6/1kV 1X 150/10 P5/P12	BLACK	Yes	7021528002072	1043612
800208	BFOU 0.6/1kV 1X 185/10 P5/P12	BLACK	-	7021528002089	1043613
800209	BFOU 0.6/1kV 1X 240/16 P5/P12	BLACK	-	7021528002096	-
800210	BFOU 0.6/1kV 1X 300/16 P5/P12	BLACK	Yes	7021528002102	1043615
800215	BFOU 0.6/1kV 2X 1.5/4 P5/P12	BLACK	Yes	7021528002157	1043620
800216	BFOU 0.6/1kV 3G 1.5mm <sup>2</sup> P5/P12	BLACK	-	7021528002164	-
800217	BFOU 0.6/1kV 4G 1.5mm <sup>2</sup> P5/P12	BLACK	-	7021528002171	-
800218	BFOU 0.6/1kV 3X 1.5/6 P5/P12	BLACK	Yes	7021528002188	1043640
800219	BFOU 0.6/1kV 4X 1.5/6 P5/P12	BLACK	Yes	7021528002195	1043660
800220	BFOU 0.6/1kV 5X 1.5/6 P5/P12	BLACK	-	7021528002201	1043705



Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.
800221	BFOU 0.6/1kV 7X 1.5/6 P5/P12	BLACK	Yes	7021528002218	1043707
800222	BFOU 0.6/1kV 12X 1.5/10 P5/P12	BLACK	Yes	7021528002225	1043712
800223	BFOU 0.6/1kV 19X 1.5/10 P5/P12	BLACK	Yes	7021528002232	1043719
800224	BFOU 0.6/1kV 27X 1.5/16 P5/P12	BLACK	-	7021528002249	1043727
800225	BFOU 0.6/1kV 37X 1.5/16 P5/P12	BLACK	-	7021528002256	-
800226	BFOU 0.6/1kV 5G 1.5mm <sup>2</sup> P5/P12	BLACK	-	7021528002263	-
800227	BFOU 0.6/1kV 32X 1.5/16 P5/P12	BLACK	-	7021528002270	-
800228	BFOU 0.6/1kV 7G 2.5mm <sup>2</sup> P5/P12	BLACK	-	7021528002287	-
800229	BFOU 0.6/1kV 2X 2.5/6 P5/P12	BLACK	Yes	7021528002294	1043621
800230	BFOU 0.6/1kV 3G 2.5mm <sup>2</sup> P5/P12	BLACK	Yes	7021528002300	-
800232	BFOU 0.6/1kV 3X 2.5/6 P5/P12	BLACK	Yes	7021528002324	1043641
800233	BFOU 0.6/1kV 4G 2.5mm <sup>2</sup> P5/P12	BLACK	-	7021528002331	-
800235	BFOU 0.6/1kV 4X 2.5/6 P5/P12	BLACK	Yes	7021528002355	1043661
800236	BFOU 0.6/1kV 8G 2.5mm <sup>2</sup> P5/P12	BLACK	-	7021528002362	-
800237	BFOU 0.6/1kV 7X 2.5/6 P5/P12	BLACK	Yes	7021528002379	1043757
800238	BFOU 0.6/1kV 12X 2.5/10 P5/P12	BLACK	Yes	7021528002386	1043762
800239	BFOU 0.6/1kV 19X 2.5/10 P5/P12	BLACK	-	7021528002393	1043769
800240	BFOU 0.6/1kV 27X 2.5/16 P5/P12	BLACK	-	7021528002409	-
800241	BFOU 0.6/1kV 37X 2.5/25 P5/P12	BLACK	-	7021528002416	1043787
800242	BFOU 0.6/1kV 5G 2.5mm <sup>2</sup> P5/P12	BLACK	-	7021528002423	-
800243	BFOU 0.6/1kV 4G 4mm <sup>2</sup> P5/P12	BLACK	-	7021528002430	-
800244	BFOU 0.6/1kV 5G 4mm <sup>2</sup> P5/P12	BLACK	-	7021528002447	-
800245	BFOU 0.6/1kV 2X 4/6mm <sup>2</sup> P5/P12	BLACK	Yes	7021528002454	1043622
800246	BFOU 0.6/1kV 3X 4/6mm <sup>2</sup> P5/P12	BLACK	Yes	7021528002461	1043642
800247	BFOU 0.6/1kV 4X 4/6mm <sup>2</sup> P5/P12	BLACK	-	7021528002478	1043662
800250	BFOU 0.6/1kV 3G 4mm <sup>2</sup> P5/P12	BLACK	-	7021528002508	-
800251	BFOU 0.6/1kV 2X 6/6mm <sup>2</sup> P5/P12	BLACK	Yes	7021528002515	1043623
800252	BFOU 0.6/1kV 3X 6/6mm <sup>2</sup> P5/P12	BLACK	Yes	7021528002522	1043643
800253	BFOU 0.6/1kV 4X 6/6mm <sup>2</sup> P5/P12	BLACK	Yes	7021528002539	1043663
800254	BFOU 0.6/1kV 3G 6mm <sup>2</sup> P5/P12	BLACK	-	7021528002546	-
800255	BFOU 0.6/1kV 4G 6mm <sup>2</sup> P5/P12	BLACK	-	7021528002553	-
800256	BFOU 0.6/1kV 5G 6mm <sup>2</sup> P5/P12	BLACK	-	7021528002560	-
800257	BFOU 0.6/1kV 2X 10/10 P5/P12	BLACK	-	7021528002577	1043624
800258	BFOU 0.6/1kV 3X 10/10 P5/P12	BLACK	Yes	7021528002584	1043644
800259	BFOU 0.6/1kV 4X 10/10 P5/P12	BLACK	-	7021528002591	-
800260	BFOU 0.6/1kV 3G 10mm <sup>2</sup> P5/P12	BLACK	-	7021528002607	-
800261	BFOU 0.6/1kV 4G 10mm <sup>2</sup> P5/P12	BLACK	-	7021528002614	-
800262	BFOU 0.6/1kV 5G 10mm <sup>2</sup> P5/P12	BLACK	-	7021528002621	-
800263	BFOU 0.6/1kV 2X 16/16 P5/P12	BLACK	-	7021528002638	1043625
800264	BFOU 0.6/1kV 3X 16/16 P5/P12	BLACK	Yes	7021528002645	1043645
800265	BFOU 0.6/1kV 4X 16/16 P5/P12	BLACK	Yes	7021528002652	1043665
800266	BFOU 0.6/1kV 3G 16mm <sup>2</sup> P5/P12	BLACK	-	7021528002669	-
800267	BFOU 0.6/1kV 5G 16mm <sup>2</sup> P5/P12	BLACK	-	7021528002676	-
800269	BFOU 0.6/1kV 2X 25/16 P5/P12	BLACK	-	7021528002690	-
800270	BFOU 0.6/1kV 3X 25/16 P5/P12	BLACK	Yes	7021528002706	1043646
800271	BFOU 0.6/1kV 4X 25/16 P5/P12	BLACK	Yes	7021528002713	1043666
800272	BFOU 0.6/1kV 4G 25mm <sup>2</sup> P5/P12	BLACK	-	7021528002720	-
800273	BFOU 0.6/1kV 5G 25mm <sup>2</sup> P5/P12	BLACK	-	7021528002737	-
800275	BFOU 0.6/1kV 2X 35/16 P5/P12	BLACK	-	7021528002751	-
800276	BFOU 0.6/1kV 3X 35/16 P5/P12	BLACK	Yes	7021528002768	1043647
800277	BFOU 0.6/1kV 4X 35/16 P5/P12	BLACK	-	7021528002775	1043667
800279	BFOU 0.6/1kV 4G 35mm <sup>2</sup> P5/P12	BLACK	-	7021528002799	-
800280	BFOU 0.6/1kV 5G 35mm <sup>2</sup> P5/P12	BLACK	-	7021528002805	-
800282	BFOU 0.6/1kV 3X 50/25 P5/P12	BLACK	Yes	7021528002829	1043648
800283	BFOU 0.6/1kV 4X 50/25 P5/P12	BLACK	Yes	7021528002836	1043668
800284	BFOU 0.6/1kV 5G 50mm <sup>2</sup> P5/P12	BLACK	-	7021528002843	-
800285	BFOU 0.6/1kV 4G 50mm <sup>2</sup> P5/P12	BLACK	-	7021528002850	-
800287	BFOU 0.6/1kV 2X 70/35 P5/P12	BLACK	-	7021528002874	-
800288	BFOU 0.6/1kV 3X 70/35 P5/P12	BLACK	Yes	7021528002881	1043649

Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.
800289	BFOU 0.6/1kV 4X 70/35 P5/P12	BLACK	-	7021528002898	1043669
800290	BFOU 0.6/1kV 4G 70mm <sup>2</sup> P5/P12	BLACK	-	7021528002904	-
800291	BFOU 0.6/1kV 5G 70mm <sup>2</sup> P5/P12	BLACK	-	7021528002911	-
800295	BFOU 0.6/1kV 3X 95/50 P5/P12	BLACK	Yes	7021528002959	1043650
800296	BFOU 0.6/1kV 4X 95/50 P5/P12	BLACK	Yes	7021528002966	1043670
800297	BFOU 0.6/1kV 4G 95mm <sup>2</sup> P5/P12	BLACK	-	7021528002973	-
800298	BFOU 0.6/1kV 5G 95mm <sup>2</sup> P5/P12	BLACK	-	7021528002980	-
800301	BFOU 0.6/1kV 3X 120/60 P5/P12	BLACK	Yes	7021528003017	1043651
800304	BFOU 0.6/1kV 4X 120/60 P5/P12	BLACK	-	7021528003048	-
800306	BFOU 0.6/1kV 4G 120mm <sup>2</sup> P5/P12	BLACK	-	7021528003062	-
800307	BFOU 0.6/1kV 4G 150mm <sup>2</sup> P5/P12	BLACK	-	7021528003079	-
800308	BFOU 0.6/1kV 4G 150mm <sup>2</sup> P5/P12	BLACK	-	7021528003086	-
800310	BFOU 0.6/1kV 4G 185mm <sup>2</sup> P5/P12	BLACK	-	7021528003109	-
800314	BFOU 0.6/1kV 3X 240/120 P5/P12	BLACK	-	7021528003147	-

### Electrical values power cables

Number of elements	Cross section core, mm <sup>2</sup>	Cross section screen, mm <sup>2</sup>	Conductor type 2	Max. conductor resistance at 20°C, Ohm/km	Max. conductor resistance at 90°C, Ohm/km	Reactance at 50Hz, Ohm/km	Reactance at 60Hz, Ohm/km	Current rating IEC 60092-352 Table B.4, Ampere	Short circuit rating 1 second, Ampere
1	16	4	STCC	1.16	1.48	0.118	0.142	96	2240
1	25	6	STCC	0.734	0.936	0.113	0.135	127	3500
1	50	6	STCC	0.391	0.499	0.104	0.125	196	7000
1	70	6	STCC	0.27	0.344	0.101	0.121	242	9800
1	95	10	STCC	0.195	0.249	0.098	0.117	293	13300
1	120	10	STCC	0.154	0.196	0.094	0.112	339	16800
1	150	10	STCC	0.126	0.161	0.094	0.112	389	21000
1	185	10	STCC	0.1	0.128	0.091	0.109	444	25900
1	240	16	STCC	0.0762	0.0972	0.091	0.109	522	33600
1	300	16	STCC	0.0607	0.0774	0.089	0.108	601	42000
2	1.5	4	STCC	12.2	15.6	0.115	0.138	20	210
3G	1.5	-	STCC	12.2	15.6	0.115	0.138	20	210
4G	1.5	-	STCC	12.2	15.6	0.115	0.138	16	210
3	1.5	6	STCC	12.2	15.6	0.115	0.138	16	210
4	1.5	6	STCC	12.2	15.6	0.115	0.138	16	210
5	1.5	6	STCC	12.2	15.6	0.115	0.138	13.5	210
7	1.5	6	STCC	12.2	15.6	0.115	0.138	12	210
12	1.5	10	STCC	12.2	15.6	0.115	0.138	10	210
19	1.5	10	STCC	12.2	15.6	0.115	0.138	8.5	210
27	1.5	16	STCC	12.2	15.6	0.115	0.138	7.5	210
37	1.5	16	STCC	12.2	15.6	0.115	0.138	7	210
5G	1.5	-	STCC	12.2	15.6	0.115	0.138	16	210
32	1.5	16	STCC	12.2	15.6	0.115	0.138	7	210
7G	2.5	-	STCC	7.56	9.64	0.107	0.129	16.5	350
2	2.5	6	STCC	7.56	9.64	0.107	0.129	26	350
3G	2.5	-	STCC	7.56	9.64	0.107	0.129	26	350
3	2.5	6	STCC	7.56	9.64	0.107	0.129	21	350
4G	2.5	-	STCC	7.56	9.64	0.107	0.129	21	350
4	2.5	6	STCC	7.56	9.64	0.107	0.129	21	350
8G	2.5	-	STCC	7.56	9.64	0.107	0.129	15.5	350
7	2.5	6	STCC	7.56	9.64	0.107	0.129	15.5	350
12	2.5	10	STCC	7.56	9.64	0.107	0.129	13	350
19	2.5	10	STCC	7.56	9.64	0.107	0.129	11	350
27	2.5	16	STCC	7.56	9.64	0.107	0.129	10	350
37	2.5	25	STCC	7.56	9.64	0.107	0.129	9	350
5G	2.5	-	STCC	7.56	9.64	0.107	0.129	21	350
4G	4	-	STCC	4.7	5.99	0.100	0.120	28	560
5G	4	-	STCC	4.7	5.99	0.100	0.120	28	560

Number of elements	Cross section core, mm <sup>2</sup>	Cross section screen, mm <sup>2</sup>	Conductor type 2	Max. conductor resistance at 20°C, Ohm/km	Max. conductor resistance at 90°C, Ohm/km	Reactance at 50Hz, Ohm/km	Reactance at 60Hz, Ohm/km	Current rating IEC 60092-352 Table B.4, Ampere	Short circuit rating 1 second, Ampere
2	4	6	STCC	4.7	5.99	0.100	0.120	34	560
3	4	6	STCC	4.7	5.99	0.100	0.120	28	560
4	4	6	STCC	4.7	5.99	0.100	0.120	28	560
3G	4	-	STCC	4.7	5.99	0.100	0.120	34	560
2	6	6	STCC	3.11	3.97	0.094	0.112	44	840
3	6	6	STCC	3.11	3.97	0.094	0.112	36	840
4	6	6	STCC	3.11	3.97	0.094	0.112	36	840
3G	6	-	STCC	3.11	3.97	0.094	0.112	44	840
4G	6	-	STCC	3.11	3.97	0.094	0.112	36	840
5G	6	-	STCC	3.11	3.97	0.094	0.112	36	840
2	10	10	STCC	1.84	2.35	0.088	0.105	61	1400
3	10	10	STCC	1.84	2.35	0.088	0.105	50	1400
4	10	10	STCC	1.84	2.35	0.088	0.105	50	1400
3G	10	-	STCC	1.84	2.35	0.088	0.105	61	1400
4G	10	-	STCC	1.84	2.35	0.088	0.105	50	1400
5G	10	-	STCC	1.84	2.35	0.088	0.105	50	1400
2	16	16	STCC	1.16	1.48	0.082	0.099	80	2240
3	16	16	STCC	1.16	1.48	0.082	0.099	67	2240
4	16	16	STCC	1.16	1.48	0.082	0.099	67	2240
3G	16	-	STCC	1.16	1.48	0.082	0.099	80	2240
5G	16	-	STCC	1.16	1.48	0.082	0.099	67	2240
2	25	16	STCC	0.734	0.936	0.081	0.098	108	3500
3	25	16	STCC	0.734	0.936	0.081	0.098	89	3500
4	25	16	STCC	0.734	0.936	0.081	0.098	89	3500
4G	25	-	STCC	0.734	0.936	0.081	0.098	89	3500
5G	25	-	STCC	0.734	0.936	0.081	0.098	89	3500
2	35	16	STCC	0.529	0.675	0.078	0.094	133	4900
3	35	16	STCC	0.529	0.675	0.078	0.094	110	4900
4	35	16	STCC	0.529	0.675	0.078	0.094	110	4900
4G	35	-	STCC	0.529	0.675	0.078	0.094	110	4900
5G	35	-	STCC	0.529	0.675	0.078	0.094	110	4900
3	50	25	STCC	0.391	0.499	0.078	0.093	137	7000
4	50	25	STCC	0.391	0.499	0.078	0.093	137	7000
5G	50	-	STCC	0.391	0.499	0.078	0.093	137	7000
4G	50	-	STCC	0.391	0.499	0.078	0.093	137	7000
2	70	35	STCC	0.27	0.344	0.077	0.092	206	9800
3	70	35	STCC	0.27	0.344	0.077	0.092	169	9800
4	70	35	STCC	0.27	0.344	0.077	0.092	169	9800
4G	70	-	STCC	0.27	0.344	0.077	0.092	169	9800
5G	70	-	STCC	0.27	0.344	0.077	0.092	169	9800
3	95	50	STCC	0.195	0.249	0.075	0.090	205	13300
4	95	50	STCC	0.195	0.249	0.075	0.090	205	13300
4G	95	-	STCC	0.195	0.249	0.075	0.090	205	13300
5G	95	-	STCC	0.195	0.249	0.075	0.090	205	13300
3	120	60	STCC	0.154	0.196	0.073	0.088	237	16800
4	120	60	STCC	0.154	0.196	0.073	0.088	237	16800
4G	120	-	STCC	0.154	0.196	0.073	0.088	237	16800
4G	150	-	STCC	0.126	0.161	0.073	0.088	272	21000
4G	150	-	-	0.126	0.161	-	-	272	21000
4G	185	-	STCC	0.1	0.128	0.073	0.088	311	25900
3	240	120	-	0.0762	0.0972	0.074	0.089	365	33600

### Ambient temperature correction factors

Ambient Temp °C	35	40	45	50	55	60	65	70	75	80
Rating factor	1.10	1.05	1.00	0.94	0.88	0.82	0.74	0.67	0.58	0.47



## Installation recommendations

Minimum Bending Radius during Installation	Minimum Bending Radius Fixed Installed	Maximum Tensile Load During Installation	Minimum Installation Temperature
8 x D	6 x D	50 N /mm <sup>2</sup>	-20°C

**Halogen-free, mud resistant, fire resistant power cable, BFOU 0,6/1kV, P5/P12, double braided**



Fire resistant, flame retardant halogen-free power cable. Mud resistant

## BFOU 0,6/1kV

MGT/EPR/EPR/TCWB/EVA

NEK 606 CodeP5/P12

Operating temperature : 90°C  
Operating Voltage : 0,6/1kV

### Application

Fixed installation for power, control and lighting in both EX- and safe areas, emergency and critical systems where requirement for fire resistance exists. For installation in areas exposed to MUD and drilling/cleaning fluids.

### Standards applied

IEC 60092-353	- Design
IEC 60228 class 2	- Conductor
IEC 60092-351	- Insulation
IEC 60092-359	- Sheath
IEC 60332-1	- Flame Retardant
IEC 60332-3-22	- Flame Retardant
IEC 60331-21	- Fire Resistant
IEC 60754-1,2	- Halogen Free
IEC 61034-1,2	- Low Smoke

### Construction

	Code Letter	
<b>Conductor</b>		Tinned annealed stranded circular copper (STCC), IEC 60228 class 2
<b>Insulation</b>	<b>B</b>	Mica-tape + EP-rubber, IEC 60092-351 (EPR)
<b>Lay up / Shielding</b>		Cores laid up in concentric layers
<b>Inner covering</b>	<b>F</b>	Flame retardant and halogen-free thermoplastic compound
<b>Tape over inner covering</b>		PET tape + rubberized Polyamide tape
<b>Armour/screen</b>	<b>O</b>	Two layers of tinned copper wire braid (double braid)
<b>Tape over armour/screen</b>		PET tape + rubberized Polyamide tape
<b>Outer sheath</b>	<b>U</b>	Flame retardant, halogen-free and mud resistant thermoset compound, SHF2 (IEC 60092-359)
<b>Marking text</b>		E.g. "meter" "år" DRAKA NORSK KABEL BFOU 0,6/1kV P5/P12 3 x 25/16 mm <sup>2</sup> FLEX - FLAME IEC 60331-21 IEC 60332-3-22 ETL Classified No. 3067229
<b>Outer sheath colour</b>		Black

## Core identification power cables

Single core	Grey (Offwhite)
Two cores	Grey (Offwhite) - Black
Three cores	Grey (Offwhite) - Black - Red
Four cores	Grey (Offwhite) - Black - Red - Blue
Five cores	Grey (Offwhite) - Black - Red - Blue - Black
Above five cores	Black numbers on white base
Separate earth core	Yellow/green
G / x in cable description	G = one of the core are yellow/green - x = no yellow/green core

From Q3 2007 the core colours on RFOU, BFOU, RU and BU 0,6/1kV will be changed to follow Cenelec HD 308S2 colours:

Single core	Black
Two cores	Blue - Brown
Two cores + earth	Blue - Brown - Yellow/green
Three cores	Brown - Black - Grey
Three cores + earth	Brown - Black - Grey - Yellow/green
Four cores	Blue - Brown - Black - Grey
Four cores + earth	Blue - Brown - Black - Grey - Yellow/green
Five cores	Blue - Brown - Black - Grey - Black
Above five cores	Black numbers on white base

## Range and dimensions

Number of elements	Cross section core, mm <sup>2</sup>	Cross section screen, mm <sup>2</sup>	Conductor Diameter, mm	Insulation Thickness, mm	Thickness Inner covering, mm	Diameter inner covering, mm	Diameter Braid Wire, mm	Thickness Outer Sheath, mm	Diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)	Copper content Approx. (kg/km)
3	150	70	15.90	1.8	1.4	46 ± 2	0.4	2.6	54.5 ± 2.5	7390	4870
4	150	70	15.90	1.8	1.6	52 ± 2.5	0.5	2.8	61 ± 3	9370	6352
4	185	95	17.7	2.0	1.8	57.5 ± 2.5	0.4	2.9	68 ± 3	11650	7750
3	185	95	17.70	2.0	1.6	51.5 ± 2.5	0.5	2.8	60.5 ± 3	9360	6291

## Ordering information

Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.
800302	BFOU 0.6/1kV 3X 150/70 P5/P12	BLACK	Yes	7021528003024	-
800309	BFOU 0.6/1kV 4X 150/70 P5/P12	BLACK	-	7021528003093	-
800391	BFOU 0.6/1kV 4X 185/95 P5/P12	BLACK	-	7021528003918	-
800392	BFOU 0.6/1kV 3X 185/95 P5/P12	BLACK	-	7021528003925	-

## Electrical values power cables

Number of elements	Cross section core, mm <sup>2</sup>	Cross section screen, mm <sup>2</sup>	Conductor type	Max. conductor resistance at 20°C, Ohm/km	Max. conductor resistance at 90°C, Ohm/km	Reactance at 50Hz, Ohm/km	Reactance at 60Hz, Ohm/km	Current rating IEC 60092-352 Table B.4, Ampere	Short circuit rating 1 second, Ampere
3	150	70	KGTFR	0.126	0.161	0.073	0.088	272	21000
4	150	70	KGTFR	0.126	0.161	0.073	0.088	272	21000
4	185	95	KGTFR	0.1	0.128	0.073	0.088	311	25900
3	185	95	KGTFR	0.1	0.128	0.073	0.088	311	25900

**Ambient temperature correction factors**

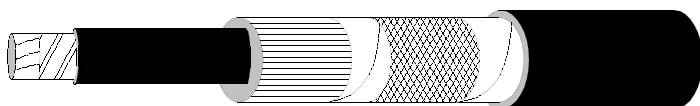
Ambient Temp °C	35	40	45	50	55	60	65	70	75	80
Rating factor	1.10	1.05	1.00	0.94	0.88	0.82	0.74	0.67	0.58	0.47

**Installation recommendations**

Minimum Bending Radius during Installation	Minimum Bending Radius Fixed Installed	Maximum Tensile Load During Installation	Minimum Installation Temperature
8 x D	6 x D	50 N /mm <sup>2</sup>	-20°C



## Halogen-free, mud resistant, fire resistant power cable, BFOU 0,6/1kV, P5/P12, large single core cables



Fire resistant, flame retardant halogen-free power cable. Mud resistant

### BFOU 0,6/1kV

MGT/EPR/EPR/TCWB/EVA

NEK 606 CodeP5/P12

Operating temperature : 90°C

Operating Voltage : 0,6/1kV

#### Application

Fixed installation for power, control and lightning in both EX- and safe areas, emergency and critical systems where requirement for fire resistance exists. For installations in areas exposed to MUD and drilling/cleaning fluids.

#### Standards applied

IEC 60502-1	- Design
IEC 60228 class 2	- Conductor
IEC 60092-351	- Insulation
IEC 60092-359	- Sheath
IEC 60332-1	- Flame Retardant
IEC 60332-3-22	- Flame Retardant
IEC 60331-21	- Fire Resistant
IEC 60754-1,2	- Halogen Free
IEC 61034-1,2	- Low Smoke

#### Construction

	Code Letter	
Conductor		Tinned annealed stranded circular copper (STCC), IEC 60228 class 2
Insulation	<b>B</b>	Mica-tape + EP-rubber, IEC 60092-351 (EPR)
Lay up / Shielding		Cores laid up in concentric layers
Inner covering	<b>F</b>	Flame retardant and halogen-free thermoplastic compound
Tape over inner covering		PET tape
Armour/screen	<b>O</b>	Tinned annealed copper wire braid
Tape over armour/screen		PET tape
Outer sheath	<b>U</b>	Flame retardant, halogen-free and mud resistant thermoset compound, SHF2 (IEC 60092-359)
Marking text		E.g. "meter" "år" DRAKA NORSK KABEL BFOU 0,6/1kV P5/P12 3 x 25/16 mm <sup>2</sup> FLEX - FLAME IEC 60331-21 IEC 60332-3-22 ETL Classified No. 3067229
Outer sheath colour		Black

## Core identification power cables

Single core	Grey (Offwhite)
Two cores	Grey (Offwhite) - Black
Three cores	Grey (Offwhite) - Black - Red
Four cores	Grey (Offwhite) - Black - Red - Blue
Five cores	Grey (Offwhite) - Black - Red - Blue - Black
Above five cores	Black numbers on white base
Separate earth core	Yellow/green
G / x in cable description	G = one of the core are yellow/green - x = no yellow/green core

From Q3 2007 the core colours on RFOU, BFOU, RU and BU 0,6/1kV will be changed to follow Cenelec HD 308S2 colours:

Single core	Black
Two cores	Blue - Brown
Two cores + earth	Blue - Brown - Yellow/green
Three cores	Brown - Black - Grey
Three cores + earth	Brown - Black - Grey - Yellow/green
Four cores	Blue - Brown - Black - Grey
Four cores + earth	Blue - Brown - Black - Grey - Yellow/green
Five cores	Blue - Brown - Black - Grey - Black
Above five cores	Black numbers on white base

## Range and dimensions

Number of elements	Cross section core, mm <sup>2</sup>	Cross section screen, mm <sup>2</sup>	Conductor Diameter, mm	Insulation Thickness, mm	Thickness Inner covering, mm	Diameter inner covering, mm	Diameter Braid Wire, mm	Thickness Outer Sheath, mm	Diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)	Copper content Approx. (kg/km)
1	400	25	26.00	2.4	1.4	35 ± 1.5	0.4	2.1	41 ± 2	5100	3940
1	630	25	32.80	2.8	1.4	42 ± 2	0.4	2.3	48.5 ± 2	7660	6167

## Ordering information

Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.
800211	BFOU 0.6/1kV 1X 400/25 P5/P12	BLACK	-	7021528002119	-
800213	BFOU 0.6/1kV 1X 630/25 P5/P12	BLACK	-	7021528002133	-

## Electrical values power cables

Number of elements	Cross section core, mm <sup>2</sup>	Cross section screen, mm <sup>2</sup>	Conductor type 2	Max. conductor resistance at 20°C, Ohm/km	Max. conductor resistance at 90°C, Ohm/km	Reactance at 50Hz, Ohm/km	Reactance at 60Hz, Ohm/km	Current rating IEC 60092-352 Table B.4, Ampere	Short circuit rating 1 second, Ampere
1	400	25	STCC	0.0475	0.0606	0.089	0.108	780	56000
1	630	25	STCC	0.0286	0.0606	0.089	0.108	780	88200

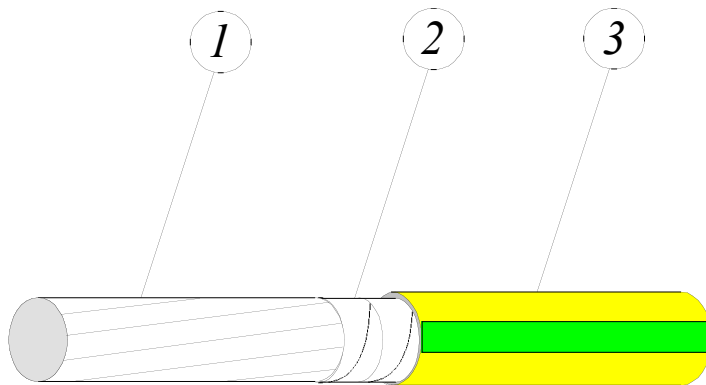
## Ambient temperature correction factors

Ambient Temp °C	35	40	45	50	55	60	65	70	75	80
Rating factor	1.10	1.05	1.00	0.94	0.88	0.82	0.74	0.67	0.58	0.47

## Installation recommendations

Minimum Bending Radius during Installation	Minimum Bending Radius Fixed Installed	Maximum Tensile Load During Installation	Minimum Installation Temperature
8 x D	6 x D	50 N /mm <sup>2</sup>	-20°C

## Halogen-free, mud resistant insulated conductor UX 1000V, P15



Flame retardant conductors

## UX 1000V

Halogen-free, NEK 606 Type: P15

Maximum operating  
Conductor temperature : 90°C  
Operating voltage : 1000V

### Application

Insulated conductor for earthing and bonding services.  
Mud resistant in accordance with NEK 606.

### Standards applied

IEC:60092-353 & NEK 606	- Design guidelines
IEC:60332-3-22	- Flame retardance
IEC:60754-1,2	- Halogen-free properties
IEC:61034-1,2	- Smoke density

## CONSTRUCTION

	CODE LETTER	
Conductor		Tinned, stranded copper. (1) PETP-tape. (2)
Insulation	U	Flame retardant halogen-free thermoset compound. (3)
Unsheathed	X	
Marking		E.g; "meter" "year" DRAKA NORSK KABEL UX 1000V P15 1x 95 mm <sup>2</sup> IEC 332-3-22
Colour		Yellow/green

## RANGE AND DIMENSIONS: UX 1000V Insulated conductor, P15

Conductor area (mm <sup>2</sup> )	Conductor diameter approx. (mm)	Insulation thickness (mm)	Diameter over insulation (mm)	Weight of conductor approx. (kg/km)	Copper content approx. (kg/km)
6	3,15	1,0	5,5±0,8	80	54
10	4,05	1,0	6,5±0,8	120	87
16	5,15	1,0	7,5±0,8	180	143
25	6,4	1,2	9,5±0,8	280	224
35	7,65	1,2	10,5±1,0	370	310
50	9,00	1,4	12,5±1,0	520	430
70	10,85	1,4	14,5±1,0	730	620

95	12,60	1,6	16,5±1,0	970	840
120	14,20	1,6	18,0±1,0	1220	1080

150	15,90	1,8	20,0±1,5	1520	1342
185	17,70	2,0	22,0±1,5	1890	1670
240	20,15	2,2	25,0±1,5	2450	2183
300	22,60	2,4	28,0±1,5	3090	2762

**Installation recommendations:**

In accordance with IEC 60092-352

Minimum bending radius		Maximum pulling tension	Minimum installation temperature
During installation	Fixed installed	25N x total cross section of conductors	- 20 °C
8 x cable diameter	6 x cable diameter		

**Ordering information:**

Conductor area (mm <sup>2</sup> )	DRAKA NORSK KABEL Part number Yellow/green	Stock item	EI-number (Norway only)
6	800800	Yes	1045541
10	800801	Yes	1045542
16	800802	Yes	1045543
25	800803	Yes	1045553
35	800804	Yes	1045563
50	800805	Yes	1045573
70	800806	Yes	1045583
95	800807	Yes	1045593
120	800808		1045603
150	800809	Yes	1045604
185	800810		
240	800811		
300	800812		

**Halogen-free, fire resistant, unarmoured, mud resistant power cable, BU 0,6/1kV, P17**



Fire resistant, flame retardant halogen-free power cable. Mud resistant

## BU 0,6/1kV

MGT/EPR/EVA

NEK 606 CodeP17

Operating temperature : 90°C  
Operating Voltage : 0,6/1kV

### Application

Fixed installation for power, control and lighting in safe areas, emergency and critical systems where requirement for fire resistance exists. For installation in areas exposed to MUD and drilling/cleaning fluids. Single core cables are double-insulated battery cables.

### Standards applied

IEC 60092-353	- Design
IEC 60228 class 2	- Conductor
IEC 60092-351	- Insulation
IEC 60092-359	- Sheath
IEC 60332-1	- Flame Retardant
IEC 60332-3-22	- Flame Retardant
IEC 60331-21	- Fire Resistant
IEC 60754-1,2	- Halogen Free
IEC 61034-1,2	- Low Smoke

### Construction

	Code Letter	
<b>Conductor</b>		Tinned annealed stranded circular copper (STCC), IEC 60228 class 2
<b>Insulation</b>	<b>B</b>	Mica-tape + EP-rubber, IEC 60092-351 (EPR)
<b>Lay up / Shielding</b>		Cores laid up in concentric layers
<b>Inner covering</b>		No inner covering. (Additional tapes may be applied)
<b>Armour/screen</b>		No armour.
<b>Outer sheath</b>	<b>U</b>	Flame retardant, halogen-free and mud resistant thermoset compound, SHF2 (IEC 60092-359)
<b>Marking text</b>		E.g. "meter" "år" DRAKA NORSK KABEL BU 0,6/1kV P17 1 x 70 mm <sup>2</sup> IEC 60331-21 IEC 60332-3-22
<b>Outer sheath colour</b>		Black

## Core identification power cables

Single core	Grey (Offwhite)
Two cores	Grey (Offwhite) - Black
Three cores	Grey (Offwhite) - Black - Red
Four cores	Grey (Offwhite) - Black - Red - Blue
Five cores	Grey (Offwhite) - Black - Red - Blue - Black
Above five cores	Black numbers on white base
Separate earth core	Yellow/green
G / x in cable description	G = one of the core are yellow/green - x = no yellow/green core

From Q3 2007 the core colours on RFOU, BFOU, RU and BU 0,6/1kV will be changed to follow

Cenelec HD 308S2 colours:

Single core	Black
Two cores	Blue - Brown
Two cores + earth	Blue - Brown - Yellow/green
Three cores	Brown - Black - Grey
Three cores + earth	Brown - Black - Grey - Yellow/green
Four cores	Blue - Brown - Black - Grey
Four cores + earth	Blue - Brown - Black - Grey - Yellow/green
Five cores	Blue - Brown - Black - Grey - Black
Above five cores	Black numbers on white base

## Range and dimensions

Number of elements	Cross section core, mm <sup>2</sup>	Conductor Diameter, mm	Insulation Thickness, mm	Thickness Outer Sheath, mm	Diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)	Copper content Approx. (kg/km)
1	16	5.15	1.0	1.1	10 ± 0.8	235	144
1	25	6.45	1.2	1.1	11.5 ± 0.8	350	229
1	35	7.65	1.2	1.2	13 ± 0.8	450	308
1	50	9.0	1.4	1.2	15 ± 0.8	610	430
1	70	10.85	1.4	1.3	17 ± 0.8	840	620
1	95	12.60	1.6	1.4	19.5 ± 0.8	1110	836
1	120	14.20	1.6	1.4	21 ± 1	1380	1075
1	150	15.90	1.8	1.5	23.5 ± 1	1700	1336
1	185	17.70	2.0	1.6	26 ± 1	2100	1663
1	10	4.05	1.0	1	8.5 ± 0.5	160	90
2	1.5	1.6	1.0	1.1	10 ± 0.8	150	28
3G	1.5	1.6	1.0	1.1	10.5 ± 0.8	175	42
3	1.5	1.6	1.0	1.1	10.5 ± 0.8	175	42
7	1.5	1.6	1.0	1.3	14.5 ± 0.8	330	98
19	1.5	1.6	1.0	1.5	22.5 ± 1	760	264
2	2.5	2.0	1.0	1.1	11 ± 0.8	185	46
3G	2.5	2.0	1.0	1.2	11.5 ± 0.8	220	69
3	2.5	2.0	1.0	1.1	11.5 ± 0.8	215	69
4G	2.5	2.0	1.0	1.2	13 ± 0.8	265	92
5G	2.5	2.0	1.0	1.3	14.5 ± 0.8	340	114
12	2.5	2.0	1.0	1.4	21 ± 1	650	275
3	4	2.55	1.0	1.2	13 ± 0.8	295	110
3G	4	2.55	1.0	1.2	13 ± 0.8	295	110
2	6	3.15	1.0	1.2	13.5 ± 0.8	310	109
3	6	3.15	1.0	1.2	14.5 ± 0.8	380	164
5G	6	3.15	1.0	1.3	17.5 ± 0.8	580	272
3	10	4.05	1.0	1.4	16.5 ± 0.8	550	271
3	16	5.15	1.0	1.4	19 ± 0.8	780	433
3	25	6.45	1.2	1.5	22.5 ± 1	1160	688
3	35	7.65	1.2	1.7	26 ± 1	1550	927

Number of elements	Cross section core, mm <sup>2</sup>	Conductor Diameter, mm	Insulation Thickness, mm	Thickness Outer Sheath, mm	Diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)	Copper content Approx. (kg/km)
3	50	9.0	1.4	1.9	30 ± 1.5	2120	1293
3	150	15.9	1.8	2.3	48 ± 2	5910	4020

### Ordering information

Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.
801200	BU 0.6/1kV 1X 16mm <sup>2</sup> P17	BLACK	-	7021528012002	-
801201	BU 0.6/1kV 1X 25mm <sup>2</sup> P17	BLACK	-	7021528012019	-
801202	BU 0.6/1kV 1X 35mm <sup>2</sup> P17	BLACK	-	7021528012026	-
801203	BU 0.6/1kV 1X 50mm <sup>2</sup> P17	BLACK	-	7021528012033	1061203
801204	BU 0.6/1kV 1X 70mm <sup>2</sup> P17	BLACK	-	7021528012040	-
801205	BU 0.6/1kV 1X 95mm <sup>2</sup> P17	BLACK	-	7021528012057	1061205
801206	BU 0.6/1kV 1X 120mm <sup>2</sup> P17	BLACK	-	7021528012064	-
801207	BU 0.6/1kV 1X 150mm <sup>2</sup> P17	BLACK	-	7021528012071	1061207
801208	BU 0.6/1kV 1X 185mm <sup>2</sup> P17	BLACK	-	7021528012088	-
801214	BU 0.6/1kV 1X 10mm <sup>2</sup> P17	BLACK	-	7021528012149	-
801215	BU 0,6/1KV 2X 1,5 MM2 P17	BLACK	-	7021528012156	-
801216	BU 0.6/1kV 3G 1.5mm <sup>2</sup> P17	BLACK	-	7021528012163	-
801218	BU 0,6/1KV 3X 1,5 MM2 P17	BLACK	-	7021528012187	-
801225	BU 0,6/1KV 7X 1,5 MM2 P17	BLACK	-	7021528012255	-
801228	BU 0.6/1kV 19X 1.5mm <sup>2</sup> P17	BLACK	-	7021528012286	-
801233	BU 0.6/1kV 2X 2.5mm <sup>2</sup> P17	BLACK	-	7021528012330	-
801234	BU 0.6/1kV 3G 2.5mm <sup>2</sup> P17	BLACK	Yes	7021528012347	-
801236	BU 0,6/1KV 3X 2,5 MM2 P17	BLACK	-	7021528012361	-
801237	BU 0.6/1kV 4G 2.5mm <sup>2</sup> P17	BLACK	-	7021528012378	-
801240	BU 0.6/1kV 5G 2.5mm <sup>2</sup> P17	BLACK	-	7021528012408	-
801245	BU 0.6/1kV 12X 2.5mm <sup>2</sup> P17	BLACK	-	7021528012453	-
801253	BU 0,6/1KV 3X 4 MM2 P17	BLACK	-	7021528012538	-
801254	BU 0.6/1kV 3G 4mm <sup>2</sup> P17	BLACK	-	7021528012545	-
801259	BU 0,6/1KV 2X 6 MM2 P17	BLACK	-	7021528012590	-
801261	BU 0,6/1KV 3X 6 MM2 P17	BLACK	-	7021528012613	-
801263	BU 0,6/1KV 5G 6 mm <sup>2</sup> P17	BLACK	-	7021528012637	-
801267	BU 0,6/1KV 3X 10 MM2 P17	BLACK	-	7021528012675	-
801273	BU 0,6/1KV 3X 16 MM2 P17	BLACK	-	7021528012736	-
801279	BU 0,6/1KV 3X 25 mm <sup>2</sup> P17	BLACK	-	7021528012798	-
801286	BU 0,6/1KV 3X 35 mm <sup>2</sup> P17	BLACK	-	7021528012866	-
801292	BU 0,6/1KV 3X 50 mm <sup>2</sup> P17	BLACK	-	7021528012927	-
801298	BU 0,6/1KV 3X 150 mm <sup>2</sup> P17	BLACK	-	7021528012989	-

### Electrical values power cables

Number of elements	Cross section core, mm <sup>2</sup>	Max. conductor resistance at 20°C, Ohm/km	Max. conductor resistance at 90°C, Ohm/km	Reactance at 50Hz, Ohm/km	Reactance at 60Hz, Ohm/km	Current rating IEC 60092-352 Table B.4, Ampere	Short circuit rating 1 second, Ampere
1	16	1.16	1.48	0.100	0.120	96	2240
1	25	0.734	0.936	0.097	0.117	127	3500
1	35	0.529	0.675	0.093	0.111	157	4900
1	50	0.391	0.499	0.091	0.109	196	7000
1	70	0.27	0.344	0.087	0.105	242	9800
1	95	0.195	0.249	0.085	0.102	293	13300
1	120	0.154	0.196	0.084	0.100	339	16800
1	150	0.126	0.161	0.083	0.100	389	21000
1	185	0.1	0.128	0.083	0.100	444	25900
1	10	1.84	2.35	0.108	0.130	72	1400
2	1.5	12.2	15.6	0.115	0.138	20	210
3G	1.5	12.2	15.6	0.115	0.138	20	210
3	1.5	12.2	15.6	0.115	0.138	16	210

Number of elements	Cross section core, mm <sup>2</sup>	Max. conductor resistance at 20°C, Ohm/km	Max. conductor resistance at 90°C, Ohm/km	Reactance at 50Hz, Ohm/km	Reactance at 60Hz, Ohm/km	Current rating IEC 60092-352 Table B.4, Ampere	Short circuit rating 1 second, Ampere
7	1.5	12.2	15.6	0.115	0.138	12	210
19	1.5	12.2	15.6	0.115	0.138	8.5	210
2	2.5	7.56	9.64	0.107	0.129	26	350
3G	2.5	7.56	9.64	0.107	0.129	26	350
3	2.5	7.56	9.64	0.107	0.129	21	350
4G	2.5	7.56	9.64	0.107	0.129	21	350
5G	2.5	7.56	9.64	0.107	0.129	21	350
12	2.5	7.56	15.6	0.115	0.138	13	350
3	4	4.7	5.99	0.100	0.120	28	560
3G	4	4.7	9.64	0.107	0.129	34	560
2	6	3.11	3.97	0.094	0.112	44	840
3	6	3.11	3.97	0.094	0.112	36	840
5G	6	3.11	3.97	0.094	0.112	36	840
3	10	1.84	2.35	0.088	0.105	50	1400
3	16	1.16	1.48	0.082	0.099	67	2240
3	25	0.734	0.936	0.079	0.095	89	3500
3	35	0.529	0.675	0.078	0.094	110	4900
3	50	0.391	0.499	0.078	0.093	137	7000
3	150	0.126	0.161	0.073	0.088	272	21000

#### Ambient temperature correction factors

Ambient Temp °C	35	40	45	50	55	60	65	70	75	80
Rating factor	1.10	1.05	1.00	0.94	0.88	0.82	0.74	0.67	0.58	0.47

#### Installation recommendations

Minimum Bending Radius during Installation	Minimum Bending Radius Fixed Installed	Maximum Tensile Load During Installation	Minimum Installation Temperature
8 x D	6 x D	50 N /mm <sup>2</sup>	-20°C



**Halogen-free, unarmoured, mud resistant power cable, RU 0,6/1kV, P18**
**Flame retardant halogen-free power cable. Mud resistant**
**RU 0,6/1kV**
**EPR/EVA**
**NEK 606 CodeP18**

**Operating temperature : 90°C**  
**Operating Voltage : 0,6/1kV**
**Application**

Fixed installation for power, control and lighting in both EX- and safe areas, general purposes. For installation in areas exposed to MUD and drilling/cleaning fluids.

**Standards applied**

IEC 60092-353	- Design
IEC 60228 class 2	- Conductor
IEC 60092-351	- Insulation
IEC 60092-359	- Sheath
IEC 60332-1	- Flame Retardant
IEC 60332-3-22	- Flame Retardant
IEC 60754-1,2	- Halogen Free
IEC 61034-1,2	- Low Smoke

**Construction**

	Code Letter	
<b>Conductor</b>		Tinned annealed stranded circular copper (STCC), IEC 60228 class 2
<b>Insulation</b>	<b>R</b>	EP-rubber, IEC 60092-351 (EPR)
<b>Lay up / Shielding</b>		Cores laid up in concentric layers
<b>Inner covering</b>		No inner covering. (Additional tapes may be applied)
<b>Armour/screen</b>		No armour.
<b>Outer sheath</b>	<b>U</b>	Flame retardant, halogen-free and mud resistant thermoset compound, SHF2 (IEC 60092-359)
<b>Marking text</b>		E.g. "meter" "year" DRAKA NORSK KABEL RU 0,6/1KV P18 3 x 2,5 mm <sup>2</sup> IEC 60332-3-22
<b>Outer sheath colour</b>		Black

## Core identification power cables

Single core	Grey (Offwhite)
Two cores	Grey (Offwhite) - Black
Three cores	Grey (Offwhite) - Black - Red
Four cores	Grey (Offwhite) - Black - Red - Blue
Five cores	Grey (Offwhite) - Black - Red - Blue - Black
Above five cores	Black numbers on white base
Separate earth core	Yellow/green
G / x in cable description	G = one of the core are yellow/green - x = no yellow/green core

From Q3 2007 the core colours on RFOU, BFOU, RU and BU 0,6/1kV will be changed to follow Genelec HD 308S2 colours:

Single core	Black
Two cores	Blue - Brown
Two cores + earth	Blue - Brown - Yellow/green
Three cores	Brown - Black - Grey
Three cores + earth	Brown - Black - Grey - Yellow/green
Four cores	Blue - Brown - Black - Grey
Four cores + earth	Blue - Brown - Black - Grey - Yellow/green
Five cores	Blue - Brown - Black - Grey - Black
Above five cores	Black numbers on white base

## Range and dimensions

Number of elements	Cross section core, mm <sup>2</sup>	Conductor Diameter, mm	Insulation Thickness, mm	Thickness Outer Sheath, mm	Diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)	Copper content Approx. (kg/km)
1	50	9.0	1.4	1.2	14.5 ± 0.8	600	428
1	70	10.9	1.4	1.3	16.5 ± 0.8	820	620
1	95	12.60	1.6	1.4	19 ± 0.8	1100	836
1	120	14.20	1.6	1.4	20.5 ± 1	1370	1075
1	150	15.90	1.8	1.5	23 ± 1	1690	1336
1	185	17.7	2.0	1.6	25 ± 1	2070	1663
1	240	20.15	2.2	1.7	28.5 ± 1	2690	2173
1	300	22.60	2.4	1.8	31.5 ± 1.5	3360	2751
2	1.5	1.6	1.0	1.1	9.5 ± 0.5	135	28
3G	1.5	1.6	1.0	1.1	10 ± 0.8	160	42
3	1.5	1.6	1.0	1.1	10 ± 0.8	160	42
4G	1.5	1.6	1.0	1.1	11 ± 0.8	190	56
4	1.5	1.6	1.0	1.1	11 ± 0.8	190	56
7G	1.5	1.6	1.0	1.2	13.5 ± 0.8	290	97
5	1.5	1.6	1.0	1.2	12 ± 0.8	240	70
7	1.5	1.6	1.0	1.2	13.5 ± 0.8	290	98
12	1.5	1.6	1.0	1.4	18 ± 0.8	480	167
19	1.5	1.6	1.0	1.5	21 ± 1	700	264
24	1.5	1.6	1.0	1.6	25 ± 1	890	333
2	2.5	2.0	1.0	1.1	10.5 ± 0.8	170	46
3G	2.5	2.0	1.0	1.1	11 ± 0.8	205	69
3	2.5	2.0	1.0	1.1	11 ± 0.8	205	69
4G	2.5	2.0	1.0	1.2	12 ± 0.8	255	92
4	2.5	2.0	1.0	1.2	12 ± 0.8	250	92
5G	2.5	2.0	1.0	1.2	13.5 ± 0.8	320	114
7	2.5	2.0	1.0	1.3	14.5 ± 0.8	390	160
2	4	2.55	1.0	1.2	11.5 ± 0.8	225	74
3G	4	2.55	1.0	1.2	12 ± 0.8	275	110
3	4	2.55	1.0	1.2	12 ± 0.8	275	110
4G	4	2.55	1.0	1.2	13.5 ± 0.8	340	147

Number of elements	Cross section core, mm <sup>2</sup>	Conductor Diameter, mm	Insulation Thickness, mm	Thickness Outer Sheath, mm	Diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)	Copper content Approx. (kg/km)
4	4	2.55	1.0	1.2	13.5 ± 0.8	340	147
5G	4	2.55	1.0	1.3	15 ± 0.8	410	183
2	6	3.15	1.0	1.2	12.5 ± 0.8	290	109
3G	6	3.15	1.0	1.2	13.5 ± 0.8	360	164
3	6	3.15	1.0	1.2	13.5 ± 0.8	380	163
4	6	3.15	1.0	1.3	15 ± 0.8	450	218
5G	6	3.15	1.0	1.3	16.5 ± 0.8	550	272
4G	6	3.15	1.0	1.3	15 ± 0.8	450	218
2	10	4.05	1.0	1.2	14.5 ± 0.8	410	181
3	10	4.05	1.0	1.3	15.5 ± 0.8	520	271
4G	10	4.05	1.0	1.3	17.5 ± 0.8	660	361
5G	10	4.05	1.0	1.4	19 ± 0.8	820	451
3	16	5.15	1.0	1.4	18 ± 0.8	760	434
4	16	5.15	1.0	1.4	20 ± 1	950	579
3G	16	5.15	1.0	1.4	18.5 ± 0.8	770	434
4G	16	5.15	1.0	1.4	20 ± 1	970	578
5G	16	5.15	1.0	1.5	22.5 ± 1	1190	722
4	25	6.45	1.2	1.6	24.5 ± 1	1420	916
4G	25	6.45	1.2	1.6	25 ± 1	1490	917
2	35	7.65	1.2	1.5	23 ± 1	1150	618
4G	35	7.65	1.2	1.7	28 ± 1	1920	1236
5G	35	7.65	1.2	1.8	31 ± 1.5	2340	1544
3	50	9.0	1.4	1.8	29 ± 1	2050	1287
5G	50	9.0	1.4	2	36.5 ± 1.5	3280	2144
3	70	10.85	1.4	2	33.5 ± 1.5	2840	1863
5G	70	10.85	1.4	2.1	42 ± 2	4480	3105

### Ordering information

Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.
831703	RU 0.6/1kV 1X 50mm <sup>2</sup> P18	BLACK	-	7021528317039	1061403
831704	RU 0,6/1KV 1X 70 MM2 P18	BLACK	-	7021528317046	-
831705	RU 0.6/1kV 1X 95mm <sup>2</sup> P18	BLACK	-	7021528317053	-
831706	RU 0.6/1kV 1X 120mm <sup>2</sup> P18	BLACK	-	7021528317060	-
831707	RU 0.6/1kV 1X 150mm <sup>2</sup> P18	BLACK	-	7021528317077	1061407
831708	RU 0,6/1KV 1X185 MM2 P18	BLACK	-	7021528317084	-
831709	RU 0.6/1kV 1X 240mm <sup>2</sup> P18	BLACK	-	7021528317091	-
831710	RU 0.6/1kV 1X 300mm <sup>2</sup> P18	BLACK	-	7021528317107	-
831715	RU 0.6/1kV 2X 1.5mm <sup>2</sup> P18	BLACK	-	7021528317152	-
831716	RU 0.6/1kV 3G 1.5mm <sup>2</sup> P18	BLACK	-	7021528317169	-
831718	RU 0.6/1kV 3X 1.5mm <sup>2</sup> P18	BLACK	-	7021528317183	-
831719	RU 0.6/1kV 4G 1.5mm <sup>2</sup> P18	BLACK	-	7021528317190	-
831721	RU 0.6/1kV 4X 1.5mm <sup>2</sup> P18	BLACK	-	7021528317213	-
831723	RU 0.6/1kV 7G 1.5mm <sup>2</sup> P18	BLACK	-	7021528317237	-
831724	RU 0.6/1kV 5X 1.5mm <sup>2</sup> P18	BLACK	-	7021528317244	-
831725	RU 0.6/1kV 7X 1.5mm <sup>2</sup> P18	BLACK	-	7021528317251	-
831726	RU 0,6/1KV 12X 1,5 MM2 P18	BLACK	-	7021528317268	-
831728	RU 0.6/1kV 19X 1.5mm <sup>2</sup> P18	BLACK	-	7021528317282	-
831729	RU 0,6/1KV 24X 1,5 MM2 P18	BLACK	-	7021528317299	-
831733	RU 0.6/1kV 2X 2.5mm <sup>2</sup> P18	BLACK	-	7021528317336	-
831734	RU 0.6/1kV 3G 2.5mm <sup>2</sup> P18	BLACK	-	7021528317343	1061434
831736	RU 0.6/1kV 3X 2.5mm <sup>2</sup> P18	BLACK	-	7021528317367	-
831737	RU 0.6/1kV 4G 2.5mm <sup>2</sup> P18	BLACK	-	7021528317374	1061437
831739	RU 0,6/1KV 4X 2,5 MM2 P18	BLACK	-	7021528317398	-
831740	RU 0.6/1kV 5G 2.5mm <sup>2</sup> P18	BLACK	-	7021528317404	-
831743	RU 0,6/1KV 7X 2,5 MM2 P18	BLACK	-	7021528317435	-
831751	RU 0,6/1KV 2X 4 MM2 P18	BLACK	-	7021528317510	-

Part number	Description	Sheath Colour	Stock item	EAN No. DNK	EL No.
831752	RU 0.6/1kV 3G 4mm <sup>2</sup> P18	BLACK	-	7021528317527	-
831753	RU 0.6/1kV 3X 4mm <sup>2</sup> P18	BLACK	-	7021528317534	-
831754	RU 0.6/1kV 4G 4mm <sup>2</sup> P18	BLACK	-	7021528317541	-
831755	RU 0,6/1KV 4X 4 MM2 P18	BLACK	-	7021528317558	-
831756	RU 0,6/1KV 5G 4mm <sup>2</sup> P18	BLACK	-	7021528317565	-
831759	RU 0,6/1KV 2X 6 MM2 P18	BLACK	-	7021528317596	-
831760	RU 0.6/1kV 3G 6mm <sup>2</sup> P18	BLACK	-	7021528317602	-
831761	RU 0,6/1KV 3X 6MM2 P18	BLACK	-	7021528317619	-
831762	RU 0.6/1kV 4X 6mm <sup>2</sup> P18	BLACK	-	7021528317626	-
831763	RU 0.6/1kV 5G 6mm <sup>2</sup> P18	BLACK	-	7021528317633	-
831764	RU 0.6/1kV 4G 6mm <sup>2</sup> P18	BLACK	-	7021528317640	-
831766	RU 0,6/1KV 2X 10 MM2 P18	BLACK	-	7021528317664	-
831767	RU 0,6/1KV 3X 10 MM2 P18	BLACK	-	7021528317671	-
831769	RU 0.6/1kV 4G 10mm <sup>2</sup> P18	BLACK	-	7021528317695	-
831770	RU 0.6/1kV 5G 10mm <sup>2</sup> P18	BLACK	-	7021528317701	-
831773	RU 0,6/1KV 3X 16 MM2 P18	BLACK	-	7021528317732	-
831774	RU 0,6/1KV 4X 16 MM2 P18	BLACK	-	7021528317749	-
831775	RU 0.6/1kV 3G 16mm <sup>2</sup> P18	BLACK	-	7021528317756	-
831776	RU 0.6/1kV 4G 16mm <sup>2</sup> P18	BLACK	-	7021528317763	-
831777	RU 0.6/1kV 5G 16mm <sup>2</sup> P18	BLACK	-	7021528317770	-
831781	RU 0,6/1KV 4X 25 MM2 P18	BLACK	-	7021528317817	-
831782	RU 0.6/1kV 4G 25mm <sup>2</sup> P18	BLACK	-	7021528317824	-
831785	RU 0,6/1KV 2X 35 MM2 P18	BLACK	-	7021528317855	-
831788	RU 0.6/1kV 4G 35mm <sup>2</sup> P18	BLACK	-	7021528317886	-
831789	RU 0.6/1kV 5G 35mm <sup>2</sup> P18	BLACK	-	7021528317893	-
831792	RU 0,6/1KV 3X 50 MM2 P18	BLACK	-	7021528317923	-
831796	RU 0.6/1kV 5G 50mm <sup>2</sup> P18	BLACK	-	7021528317961	-
831798	RU 0,6/1KV 3X 70 MM2 P18	BLACK	-	7021528317985	-
831799	RU 0.6/1kV 5G 70mm <sup>2</sup> P18	BLACK	-	7021528317992	-

#### Electrical values power cables

Number of elements	Cross section core, mm <sup>2</sup>	Max. conductor resistance at 20°C, Ohm/km	Max. conductor resistance at 90°C, Ohm/km	Reactance at 50Hz, Ohm/km	Reactance at 60Hz, Ohm/km	Current rating IEC 60092-352 Table B.4, Ampere	Short circuit rating 1 second, Ampere
1	50	0.391	0.499	0.089	0.107	196	7000
1	70	0.27	0.344	0.099	0.120	242	9800
1	95	0.195	0.249	0.084	0.101	293	13300
1	120	0.154	0.196	0.082	0.099	339	16800
1	150	0.126	0.161	0.082	0.098	389	21000
1	185	0.1	0.128	0.081	0.098	444	25900
1	240	0.0762	0.0972	0.080	0.096	522	33600
1	300	0.0607	0.0774	0.080	0.096	601	42000
2	1.5	12.2	15.6	0.110	0.132	20	210
3G	1.5	12.2	15.6	0.110	0.132	20	210
3	1.5	12.2	15.6	0.110	0.132	16	210
4G	1.5	12.2	15.6	0.110	0.132	16	210
4	1.5	12.2	15.6	0.110	0.132	16	210
7G	1.5	12.2	15.6	0.110	0.132	12.5	210
5	1.5	12.2	15.6	0.110	0.132	13.5	210
7	1.5	12.2	15.6	0.110	0.132	12	210
12	1.5	12.2	15.6	0.110	0.132	10	210
19	1.5	12.2	15.6	0.110	0.132	8.5	210
24	1.5	12.2	15.6	0.110	0.132	8	210
2	2.5	7.56	9.64	0.102	0.123	26	350
3G	2.5	7.56	9.64	0.103	0.123	26	350
3	2.5	7.56	9.64	0.103	0.123	21	350
4G	2.5	7.56	9.64	0.103	0.123	21	350
4	2.5	7.56	9.64	0.103	0.123	21	350

Number of elements	Cross section core, mm <sup>2</sup>	Max. conductor resistance at 20°C, Ohm/km	Max. conductor resistance at 90°C, Ohm/km	Reactance at 50Hz, Ohm/km	Reactance at 60Hz, Ohm/km	Current rating IEC 60092-352 Table B.4, Ampere	Short circuit rating 1 second, Ampere
5G	2.5	7.56	9.64	0.103	0.123	21	350
7	2.5	7.56	9.64	0.103	0.123	15.5	350
2	4	4.7	5.99	0.096	0.115	34	560
3G	4	4.7	5.99	0.096	0.115	34	560
3	4	4.7	5.99	0.096	0.115	28	560
4G	4	4.7	5.99	0.096	0.115	28	560
4	4	4.7	5.99	0.096	0.115	28	560
5G	4	4.7	5.99	0.096	0.115	28	560
2	6	3.11	3.97	0.090	0.108	44	840
3G	6	3.11	3.97	0.090	0.108	44	840
3	6	3.11	3.97	0.090	0.108	36	840
4	6	3.11	3.97	0.090	0.108	36	840
5G	6	3.11	3.97	0.090	0.108	36	840
4G	6	3.11	3.97	0.090	0.108	36	840
2	10	1.84	2.35	0.084	0.101	61	1400
3	10	1.84	2.35	0.084	0.101	50	1400
4G	10	1.84	2.35	0.084	0.101	50	1400
5G	10	1.84	2.35	0.084	0.101	50	1400
3	16	1.16	1.48	0.080	0.096	67	2240
4	16	1.16	1.48	0.080	0.096	67	2240
3G	16	1.16	1.48	0.080	0.096	80	2240
4G	16	1.16	1.48	0.080	0.096	67	2240
5G	16	1.16	1.48	0.103	0.123	67	2240
4	25	0.734	0.936	0.079	0.095	89	3500
4G	25	0.734	0.936	0.079	0.095	89	3500
2	35	0.529	0.675	0.076	0.092	133	4900
4G	35	0.529	0.675	0.076	0.092	110	4900
5G	35	0.529	0.675	0.076	0.092	110	4900
3	50	0.391	0.499	0.076	0.092	137	7000
5G	50	0.391	0.499	0.076	0.092	137	7000
3	70	0.27	0.344	0.075	0.091	169	9800
5G	70	0.27	0.344	0.076	0.092	169	9800

#### Ambient temperature correction factors

Ambient Temp °C	35	40	45	50	55	60	65	70	75	80
Rating factor	1.10	1.05	1.00	0.94	0.88	0.82	0.74	0.67	0.58	0.47

#### Installation recommendations

Minimum Bending Radius during Installation	Minimum Bending Radius Fixed Installed	Maximum Tensile Load During Installation	Minimum Installation Temperature
8 x D	6 x D	50 N /mm <sup>2</sup>	-20°C

## Approvals

Our cables carry these major approvals

	Det norske Vertitas	Germa- nischer Lloyd	American bureau of shipping	Lloyds register of shipping	ETL	Bureau vertias	Russian Maritime register of shipping
RFOU 250V (c) (i)	•	•	•	•	•	•	•
RU 250V (c) (i)	•						
RFOU 0,6/1kV	•	•	•	•	•	•	•
RFOU 6/10kV	•				•		
RFOU 12/20 kV	•				•		
RU 0,6/1kV	•		•	•			
BFOU 250V (c) (i)	•	•	•	•	•	•	•
BU 250V (i) (c)	•		•	•			
BFOU 0,6/1kV	•	•	•	•	•	•	•
BU 0,6/1kV	•		•	•			
BFCU 250V (c) (i)	•		•	•*)			
BFCU 0,6/1kV	•		•	•*)			
RFCU 250V (c) (i)	•		•	•*)			
RFCU 0,6/1kV	•		•	•*)			

All cables are designed in accordance with IEC 60092-350, IEC 60092-353, IEC 60092-354 and IEC 60092-376 except those marked with \*). They are designed in accordance with BS 6883

## Standards and tests

Standards	Designation Title
IEC 60092-350	Part 350: Shipboard power cables - General construction and test requirements
IEC 60092-351	Part 351: Insulating materials for shipboard and offshore units, power, control, instrumentation, telecommunication and data cables
IEC 60092-352	Part 352: Choice and installation of electrical cables
IEC 60092-353	Part 353: Single and multicore non-radial field power cables with extruded solid insulation for rated voltage 1 kV and 3 kV.
IEC 60092-354	Part 354: Single -and three-core power cables with extruded solid insulation for rated voltages 6 kV ( $U_m = 7,2\text{kV}$ ) up to 30 kV ( $U_m = 36\text{ kV}$ )
IEC 60092-359	Part 359: Sheathing materials for shipboard power and telecommunication cables.
IEC 60092-376	Part 376: Cables for control and instrumentation circuits 150/250 V (300 V)
IEC 60228	Conductors of insulated cables.
IEC 60331-11	Test for electric cables under fire conditions – Circuit integrity – Part 11 Apparatus – Fire alone at a flame temperature of at least 750°C
IEC 60331-12	Test for electric cables under fire conditions – Circuit integrity – Part 12 Apparatus – Fire with shock at a flame temperature of at least 830°C
IEC 60331-21	Test for electric cables under fire conditions – Circuit integrity – Part 21 Procedures and requirements – Cables of rated voltage up to and including 0,6/1kV
IEC 60331-25	Test for electric cables under fire conditions – Circuit integrity – Part 25 Procedures and requirements – Optical fibre cables
IEC 60331-31	Test for electric cables under fire conditions – Circuit integrity – Part 31 Procedures and requirements for fire with shock – Cables of rated voltage up to and including 0,6/1kV
IEC 60332-1-1	Test on electric and optical fibre cables under fire conditions. Part 1-1 Test for vertical flame propagation for a single insulated wire or cable - Apparatus
IEC 60332-1-2	Test on electric and optical fibre cables under fire conditions. Part 1-2 Test for vertical flame propagation for a single insulated wire or cable – Procedure for 1 kW pre-mixed flame
IEC 60332-1-3	Test on electric and optical fibre cables under fire conditions. Part 1-3 Test for vertical flame propagation for a single insulated wire or cable – Procedure for determination of flaming droplets/particles
IEC 60332-2-1	Test on electric and optical fibre cables under fire conditions. Part 2-1 Test for vertical flame propagation for a single small insulated wire or cable - Apparatus

IEC 60332-2-2	Test on electric and optical fibre cables under fire conditions. Part 2-2 Test for vertical flame propagation for a single small insulated wire or cable – Procedure for diffusion flame
IEC 60332-3-21	Tests on electric cables under fire conditions . Part 3-21 Test for vertical flame spread of vertically-mounted bunched wires or cables – Category A F/R
IEC 60332-3-22	Tests on electric cables under fire conditions . Part 3-22 Test for vertical flame spread of vertically-mounted bunched wires or cables – Category A
IEC 60332-3-23	Tests on electric cables under fire conditions . Part 3-23 Test for vertical flame spread of vertically-mounted bunched wires or cables – Category B
IEC 60332-3-24	Tests on electric cables under fire conditions . Part 3-24 Test for vertical flame spread of vertically-mounted bunched wires or cables – Category C
IEC 60332-3-25	Tests on electric cables under fire conditions . Part 3-25 Test for vertical flame spread of vertically-mounted bunched wires or cables – Category C
IEC 60501-1	Power cables with extruded insulation and their accessories for rated voltages from 1 kV (Um = 1,2 kV) up to 30 kV (Um = 36 kV) - Part 1: Cables for rated voltages of 1 kV (Um = 1,2 kV) and 3 kV (Um = 3,6 kV)
IEC 60754-1	Test on gases evolved during combustion of electrical cables. Part 1: Determination of the amount of halogen acid gas.
IEC 60754-2	Test on gases evolved during combustion of electrical cables. Part 2: Determination of degree of acidity of gases evolved during the combustion of materials taken from electric cables by measuring pH and conductivity.
IEC 60811	Common test methods for insulating and sheathing materials of electric cables.
IEC 61034-1	Measurement of smoke density of cables burning under defined conditions. Part 1: Test apparatus.
IEC 61034-2	Measurement of smoke density of cables burning under defined conditions. Part 2: Test procedure and requirements.



## Definition of terms

### Flame retardance

The cables shall withstand the test specified in IEC 60332-3-22.  
Single, earth and bonding wires shall withstand the test specified in IEC 60332-1.

### Fire resistance

Fire resistant cables shall be tested in accordance with IEC 60331-21 and 31.

### Content of halogen

To demonstrate that the cables are halogen-free they shall be tested to IEC 60754-1,2  
maximum content of halogen = 5 mg/g.

### Smoke Emission

During a cable fire the smoke emission is recommended to have a minimum value of 60% when tested in accordance with IEC 61034-2

### Oil resistance

For cables with thermoplastic sheath material there are no requirements for oil resistance properties.

All thermoset sheathed cables shall be suitable for an oil production installation.  
The oil resistance properties shall be demonstrated by a test according to IEC 60092-359 SHF-2 with the cable immersed in IRM oil no. 902 at 100°C for 24 hours.

### Mud resistance

In accordance with NEK 606 the mud resistant cables shall have a sheath (SHF Mud) that complies with the requirements in IEC 60092-359 for SHF2 and the below specified.

Mud resistant cables shall be designed with sheathing compounds suitable for installation and operation in contact with MUD unless otherwise specified.

The MUD resistance test requirements for sheathing compounds SHF Mud are as follows:

Test fluid	Temperature	Duration	Tensile strength variation	Elongation at break variation	Volume swell variation	Weight increase variation
Mineral oil type IRM 903	100°C	7 d	30%	30%	30%	30%
Calcium Bromide Brine (Waterbased)	70°C	56 d	25%	25%	20%	15%
Carbo Sea (Oil based)	70°C	56 d	25%	25%	20%	15%

## Fire, flame, smoke and corrosion test methods

### Cables' integrity during a fire

#### Fire resistance

During a fire it is vital that emergency circuits should continue to function. This could be communication circuits, emergency lights, alarms and fire pumps, etc.

On oil rigs and platforms and other confined areas this could be a matter of life and death.

#### Cables that will function in a fire ensuring circuit integrity

##### BFOU / BFCU / BU cables

These cable types have Mica tape applied around the conductors which is then insulated with heat-resistant XLPE and have an outer sheathing of a halogen-free thermoplastic material. BXOI cables have between the insulation and outer sheathing a metal braid armour.

#### Test method

IEC 60331 750°C 3 hours.

As an option we offer cables to 1000°C for 3 hours with an upgraded IEC 60331 test.

#### Flame propagation

Flame retardant cables must be self-extinguishing when the source of flames dies out.

#### Flame retardant cables with built-in self-extinguishing properties

These cables have sheathing and bedding with hydrated flame retardants that provide resistance to ignition and flame spread.

#### Test methods

IEC 60332 - 1

IEC 60332 - 3, category A, B and C.

IEC 60332 - 3 Category	Amount of combustible material in litres per metre of cable ladder	Burning time Minutes
A	7	40
B	3,5	40
C	1,5	20

#### Smoke risk to personnel

Smoke evolution is of major significance in situations where escape routes are limited in the event of fire.

#### Cables having exceptionally low smoke emission

All offshore topside cables, halogen-free shipboard cables and fire resistant cables listed in this catalogue, have sheathing and insulation based on halogen-free materials.

To minimise the risk of smoke and toxic gases, each component from conductor tapes to outer sheath has been taken into consideration.

**Test method**

3 m Cube Test for the measurement of smoke density.  
IEC 61034 - 2

**Damage to expensive equipment****Corrosion**

Halogen-free cables will not cause corrosion to metals.

When halogen - containing cables burn, the gases generated in combustion of the sheathing and insulation may cause corrosion.

The secondary effects after a fire are often many times larger than the damages caused by the fire itself.

**Test method**

IEC 60754 - 1  
IEC 60754 - 2

## Installation recommendations

The following installation recommendations are in accordance with IEC regulations and practice.

Different regulations may apply in other countries.

### Minimum cable bending radius.

Cables for rated voltages up to 0,6/1 kV, in accordance with IEC 60092-352.

Outer diameter of cable	Minimum bending radius when fixed installed		Minimum bending radius during installation
	Unbraided cables	Braided cables	
D < 25mm	4D	6D	8D
D > 25mm	6D	6D	8D

Medium voltage cables up to and including 12/20(24) kV:

Minimum bending radius during installation:	15D
Minimum bending radius when fixed installed:	9D

### Installation temperature.

Minimum recommended installation temperature for cables of rated voltage up to 20 kV, such as:

RFOU – BFOU – RU – BU -20°C

### Pulling tension.

The cable pulling tension during installation can be estimated by means of the following formula:

$p = 50 \text{ N} \times$  total cross section of conductors in the armoured cable

or

$p = 25 \text{ N} \times$  total cross section of conductors in the unarmoured cable

Additional tension will be supplied from the braid and the insulation and sheathing compound.

## Electrical data

### Conductor Resistance

Resistance formula:

$$R = \rho \frac{L}{A}$$

R = resistance in ohm per phase

$$\rho = \text{specific resistance} \frac{\text{Ohm} \cdot \text{mm}^2}{\text{m}}$$

A = conductor area mm<sup>2</sup>, L = conductor length, m

### Resistance as a function of temperature:

$$R = R_0 (1 + \alpha (t - 20 \text{ °C}))$$

R = Resistance at t=20°C, t = conductor temperature °C, α = 0,00393 for copper

### Conductor resistance tinned annealed copper 250V, 0,6/1kV, 1,8/3(3,6)kV.

In accordance with IEC 60228, class 2. Tinned stranded annealed copper conductors for single core and multi-core cables 250V, 0,6/1kV and 1,8/3kV

Nominal conductor area mm <sup>2</sup>	No. of wires and diameter of wires mm	Approx. diam. mmØ	Max. resistance pr km	
			20°C ohm	90°C ohm
0,5	7x 0,30	0,9	36,7	46,8
0,75	7x 0,37	1,1	24,8	31,6
1	7x 0,43	1,3	18,2	23,2
1,5	7x 0,53	1,6	12,2	15,6
2,5	7x 0,67	2,0	7,56	9,64
4	7x 0,85	2,6	4,70	5,99
6	7x 1,05	3,2	3,11	3,97
10	7x 1,35	4,1	1,84	2,35
16	7x 1,71	5,2	1,16	1,48
25	7 x 2,13	6,6	0,734	0,936
35	19x 1,53	7,7	0,529	0,675
50	19x 1,80	9,1	0,391	0,499
70	19x 2,17	10,9	0,270	0,344
95	37x 1,80	12,6	0,195	0,249
120	37x 2,03	14,2	0,154	0,196
150	37x 2,27	15,9	0,126	0,161
185	37x 2,52	17,7	0,100	0,128
240	61x 2,24	20,2	0,0762	0,0972
300	61x 2,52	22,6	0,0607	0,0774
400	91x 2,36	26,0	0,04475	0,0596
500	91x 2,64	29,0	0,0369	0,0463
630	127x 2,52	32,8	0,0286	0,0359

### Conductor resistance, tinned annealed copper conductor

### 3,6/6(7,2)kV, 6/10(12)kV, 8,7/15(17,5)kV, 12/20(24)kV and 18/30(36)kV.

In accordance with IEC 60228, class 2. Compressed tinned stranded annealed copper conductors for single core and multicore cables 3,6/6kV, 6/10kV, 8,7/15kV, 12/20(24)kV and 18/30(36)kV.

Nominal conductor area mm <sup>2</sup>	No. of wires and diameter of wires *) mm	Approx. diam. mmØ	Max. resistance pr km	
			20°C ohm	90°C ohm
16	7x 1,71	5,2	1,16	1,48
25	7 x 2,14	6,5	0,734	0,936
35	19x 1,53	7,4	0,529	0,675
50	19x 1,80	8,8	0,391	0,499
70	19x 2,17	10,3	0,270	0,344
95	37x 1,80	12,1	0,195	0,249
120	37x 2,03	13,6	0,154	0,196
150	37x 2,27	15,1	0,126	0,161
185	37x 2,52	16,8	0,100	0,128
240	61x 2,24	19,1	0,0762	0,0972
300	61x 2,52	21,5	0,0607	0,0774

\*) Diameter of wires before compressing

**Wire gauge conversion table**

US Standard cross-section to square millimetres

U.S. Standard	Equivalent cross-section mm <sup>2</sup>	Nearest available cross-section mm <sup>2</sup>
20 AWG	0.519	0.5 – 0.75
18	0.823	1.0
16	1.31	1.5
14	2.08	2.5
12	3.31	4
10	5.26	6
8	8.37	10
6	13.30	16
4	21.15	25
2	33.62	35
1	42.41	50
1/0	53.49	50 - 70
2/0	67.23	70
3/0	85.01	95
4/0	107.2	120
250 MCM	126.7	120 - 150
300	152.0	150
350	177.3	185
400	202.7	185
450	228.0	185-240
500	253.4	240
550	278.7	240 – 300
600	304.0	300
650	329.4	300
700	354.7	300 – 400
750	380.0	400
800	405.4	400
850	430.7	400
900	456.0	400
950	481.4	400
1000	506.7	400 – 630
1250	633.4	630
1500	760.0	800
1750	886.7	800 – 1000
2000	1013.4	1000

**Current ratings for 250V and 0,6/1kV cables in fixed installations.**

Current carrying capacities in continuous service at maximum rated temperature of 90°C.  
In accordance with IEC 60092-352 (2005) Annex B, Table B.4. Ambient temperature 45°C

Conductor area mm <sup>2</sup>	1-core Amp	2-core Amp	3-4 core Amp
1	18	15	13
1,5	23	20	16
2,5	30	26	21
4	40	34	28
6	52	44	36
10	72	61	50
16	96	82	67
25	127	108	89
35	157	133	110
50	196	167	137
70	242	206	169
95	293	249	205
120	339	288	237
150	389	331	273
185	444	377	311
240	522	444	366
300	601	511	420
400	719	611	503
500	827	703	579
630	955	812	669

**For cables with more than 4 cores, the current ratings are given by the following formula:**

$$I = \frac{I_1}{\sqrt[3]{N}}$$

$I_1$  = current rating for single core

$N$  = number of cores

No. of cores	1,5 mm <sup>2</sup> Amp	2,5 mm <sup>2</sup> Amp
5	13	18
7	12	16
12	10	13
19	9	11
24	8	10
37	7	9



**Current rating for 1,8/3(3,6)kV, 3,6/6(7,2)kV, 6/10(12)kV, 8,7/15(17,5)kV, 12/20(24)kV and 18/30(36)kV cables in fixed installations.**

Current carrying capacities in continuous service at maximum rated temperature of 90°C.  
In accordance with IEC 60092-352 (2005) Annex B, Table B.4.

Conductor area mm <sup>2</sup>	1-core Amp	2-core Amp	3-4 core Amp
16	96	82	67
25	127	108	89
35	157	133	110
50	196	167	137
70	242	206	169
95	293	249	205
120	339	288	237
150	389	331	273
185	444	377	311
240	522	444	366
300	601	511	420
400	719	-	-
500	827	-	-
630	955	-	-

The tabled current ratings must be adjusted for ambient air temperatures other than 45°C.

Appropriate rating factors are:

Ambient air temp. °C	35	40	45	50	55	60	65	70	75	80
Rating factors	1,10	1,05	1,00	0,94	0,88	0,82	0,74	0,67	0,58	0,47

## Short circuit ratings

The following short circuit currents are for cables normally operating at a maximum conductor temperature of 85°C.

The theoretical temperature that arises in the conductor during a short circuit, which is used as a basis of the calculation, is 250°C. EPR and XLPE insulation are capable of withstanding short term temperatures up to 250°C. The short circuit currents for copper conductors given in the table are values for one second, for other durations the current may be calculated from the following formula:

$$I_t = \frac{I}{\sqrt{t}}$$

$I_t$  = short circuit current for t sec. (Amp),  
 $I$  = short circuit current for one sec. (Amp),  
 $t$  = short circuit duration (sec.)

The duration of the short circuit based on these assumptions should be between 0,2 sec. and 5 sec.

Conductor area mm <sup>2</sup>	Current 1 second amperes	Conductor area mm <sup>2</sup>	Current 1 second amperes
1,0	140	70	9800
1,5	210	95	13300
2,5	350	120	16800
4	560	150	21000
6	840	185	25900
10	1400	240	33600
16	2240	300	42000
25	3500	400	56000
35	4900	500	70000
50	7000	630	88200

## Reactance

The reactance of a cable operating in an AC system depends on many factors, including, in particular, the axial spacing between conductors and the proximity and magnetic properties of adjacent steelwork. The former is known for multicore cable, but may vary for single core cables depending upon the spacing between them and their disposition when installed. Reactance of cables in certain disposition when installed. Reactance of cables in certain dispositions remote from steelwork are calculable and are shown. The tabulated values are for cables with circular conductors. The value for a sector-shaped conductor should be taken as 90% of the calculated value.

Induction for 2-, 3- and 4- conductor cables is given by the formula:

$$L = 0,2 * \left( \ln \left( \frac{2a}{d} \right) + 0,25 \right) * 10^{-6}$$

$L$  = Induction in H/m and phase,  $a$  = Axial space between conductors in mm.  
 $d$  = conductor diameter in mm.

Reactance for 2-, 3- and 4-conductor cables is given by the formula:

$$X = 2 * \pi * f * L * I$$

$X$  = Reactance in ohm pr. Phase,  $f$  = frequency in Hz,  $L$  = Induction in H/m and phase  
 $I$  = Conductor length in meter.

**Reactance Values for Cables**
**Power and control cables. RFOU 0,6/1 kV**

Cross-section mm <sup>2</sup>	2-, 3- and 4 cores ohm/km		1- core* ohm/km	
	60 Hz	50 Hz	60 Hz	50 Hz
1,5	0,132	0,110		
2,5	0,123	0,103		
4	0,115	0,096		
6	0,108	0,090		
10	0,101	0,084		
16	0,096	0,080	0,139	0,116
25	0,095	0,079	0,134	0,112
35	0,092	0,076	0,127	0,106
50	0,092	0,076	0,123	0,103
70	0,091	0,075	0,120	0,100
95	0,088	0,073	0,116	0,097
120	0,086	0,072	0,113	0,094
150	0,087	0,072	0,110	0,092
185	0,086	0,072	0,109	0,091
240	0,086	0,072	0,109	0,090
300	0,086	0,071	0,107	0,089

\*) Reactance for 1-conductor cables given at Three- foil formation

**Power and control cables, BFOU 0,6/1 kV.**

Cross-section mm <sup>2</sup>	2-, 3- and 4 core ohm/km		1- core* ohm/km	
	60 Hz	50 Hz	60 Hz	50 Hz
1,5	0,138	0,115		
2,5	0,129	0,107		
4	0,120	0,100		
6	0,112	0,094		
10	0,105	0,088		
16	0,099	0,082	0,144	0,120
25	0,098	0,081	0,135	0,113
35	0,094	0,078	0,129	0,107
50	0,093	0,078	0,125	0,104
70	0,092	0,077	0,121	0,101
95	0,090	0,075	0,117	0,098
120	0,088	0,073	0,112	0,094
150	0,088	0,073	0,112	0,094
185	0,088	0,073	0,109	0,091
240	0,087	0,072	0,109	0,091
300	0,086	0,072	0,108	0,090

\*) Reactance for 1-conductor cables given at Three- foil formation

### Medium Voltage Power cables. RFOU 6/10 kV

Cross-section mm <sup>2</sup>	3 core ohm/km		1- core* ohm/km	
	50 Hz	60 Hz	50 Hz	60 Hz
16	0.119	0.143	0.154	0.185
25	0.119	0.143	0.144	0.173
35	0.114	0.137	0.138	0.166
50	0.108	0.130	0.132	0.158
70	0.103	0.124	0.125	0.150
95	0.098	0.118	0.119	0.142
120	0.095	0.114	0.116	0.139
150	0.092	0.111	0.111	0.133
185	0.092	0.111	0.108	0.130
240	0.087	0.104	0.104	0.125
300	0.084	0.101	0.104	0.124
400	-	-	0.090	0.118
500	-	-	0.097	0.117
630	-	-	0.092	0.110

\*) Reactance for 1-conductor cables given at Three- foil formation

### Medium Voltage Power cables. RFOU 12/20(24)kV.

Cross-section mm <sup>2</sup>	3 core ohm/km		1-core* ohm/km	
	50 Hz	60 Hz	50 Hz	60 Hz
35	0.128	0.153	0.149	0.178
50	0.121	0.145	0.140	0.169
70	0.115	0.135	0.133	0.160
95	0.109	0.131	0.127	0.152
120	0.105	0.126	0.124	0.149
150	0.102	0.122	0.119	0.142
185	0.099	0.118	0.116	0.139
240	0.095	0.114	0.112	0.134
300	-	-	0.108	0.130

\*) Reactance for 1-conductor cables given at Three- foil formation

## Impedance

Induction for 2-, 3- and 4- conductor cables is given by the formula:

$$Z = \sqrt{R^2 + X^2}$$

Z = Impedance in ohm pr. phase, R = Resistance at operating temperature in ohm pr. phase.

X = Reactance in ohm pr. phase.

**Electrical characteristics for instrumentation and telecommunication cables such as 250 V cables: RFOU and BFOU according to IEC 60092-376**

**Cables with collective screen**

Type	Capacitance, approx. (nF/km)	Inductance, approx. (mH/km)	Resistance at 20°C, max. (Ohm/km)	L/R ratio, (microH/Ohm)
Unshielded pair 0,75 mm <sup>2</sup>	100	0,67	24,8	14,3
Unshielded triple 0,75 mm <sup>2</sup>	100	0,67	24,8	14,3
Unshielded pair 1,5 mm <sup>2</sup>	110	0,63	12,2	26,6
Unshielded triple 1,5 mm <sup>2</sup>	110	0,63	12,2	26,6
Unshielded pair 2,5 mm <sup>2</sup>	125	0,59	7,56	39,0
Unshielded triple 2,5 mm <sup>2</sup>	125	0,59	7,56	39,0

**Cables with individually screened pair/triples**

Type	Capacitance, approx. (nF/km)	Inductance, approx. (mH/km)	Resistance at 20°C, max. (Ohm/km)	L/R ratio, (microH/Ohm)
Shielded pair 0,75 mm <sup>2</sup>	110	0,67	24,8	14,3
Shielded triple 0,75 mm <sup>2</sup>	110	0,67	24,8	14,3
Shielded pair 1,5 mm <sup>2</sup>	125	0,63	12,2	26,6
Shielded triple 1,5 mm <sup>2</sup>	125	0,63	12,2	26,6
Shielded pair 2,5 mm <sup>2</sup>	145	0,59	7,56	39,0
Shielded triple 2,5 mm <sup>2</sup>	145	0,59	7,56	39,0

## **Material properties**

### **Polymeric materials used in cables for ships and offshore topside installations**

**For 25 years Draka Norsk Kabel has been facing the same challenge :**

The increasing severe performance criteria demands from our ship and offshore customers.

Elastomers are the major part of our cable construction.

The insulation, bedding and sheathing have been developed through intensive research and development to meet the offshore and ship industry's specific and stringent requirements.

This information is not intended to give you details of the elastomers in use.

For correct selection and application of materials our technical representatives will be pleased to provide you with more complete information.

#### **EP - rubber (EPDM)**

EPDM is a hydrocarbon rubber that combines electrical performance suitable for fire resistant offshore cables with mechanical toughness and resistance to ozone, UV light and heat. It's wet electrical properties are unique.

Applications : Wire insulation  
Bedding compounds

#### **Flame retardant halogen-free termoset compound (EVA)**

EVA, ethylene vinyl acetate, is a multi-functional elastomer, which resists the combined deteriorating influences of heat, oil and weather. (In accordance with IEC 60092-359 type SHF2). For offshore applications, EVA can be compounded to produce high quality cable sheathing with low smoke and flame propagation, and with no emission of halogenous acids.

Applications : Cable sheathing on offshore oil platforms, ships, hotels and in rooms with expensive equipment, which must not be subjected to corrosion damage.

#### **Low smoke , Flame retardant , Halogen-free and Thermoplastic compounds , HFFR.**

When PVC is not acceptable due to the problems chlorine (halogen) containing materials present in the event of a fire HFFR must be used. (In accordance with IEC 60092-359 type SHF1).

Our HFFR materials will not propagate a fire along a cable run, drip or give off black smoke. No acid gases will be released during a fire that can corrode and damage expensive equipment.

Applications: Cable sheathing for  
Rooms with IT equipment  
high - rise buildings (hotels)  
hospitals  
Telephone exchanges  
subway systems, airports and many others.

#### **XLPE – Crosslinked Polyethylene**

Polyethylene is the most used plastic material. By introducing chemical bonding between the chains in PE we get XLPE, a thermoset type of PE.

In cable insulation it is used for the excellent insulation properties , very good mechanical

strength , low density and good thermal stability.

Applications : Wire insulations

**Physical and chemical properties of Draka's sheathing compounds for use in offshore topside and shipboard cables**

	Enhanced oil resistant EVA (SHF2)	NITRILE/PVC	PVC	HFFR (SHF1)
Mechanical properties	3 - 4	4	4	2 - 3
Weathering (O <sub>2</sub> -O <sub>3</sub> )	5	4	5	4 - 3
Heat resistance	4	3	2 - 3	4
Low temperature	3	3	2	3
Hydrocarbons general	3 - 4	4	2	0
Hydrocarbons high aromatic (MUD)	3 - 4 *	4	1	0
Sea-water	3	4	4	3
Fire resistant	4	3	4	4
Oxygen Index	4(35)	3(28)	4(32)	4(35)
Smoke generation	5	2	1	5
Halogens	No	Cl	Cl	No

*5 - Excellent, 4 - Very good, 3 - Good, 2 - Medium, 1 - Poor, 0 - Not recommended*

\* Drilling MUD is not one chemical, but a mix of different chemicals and each producer have their own composition. The sheathing material could be resistant to the aromatics in the MUD, but be affected by uther chemicals like corrosion inhibitors. Each MUD must therefore be tested for compatibility with the cable sheathing. The test method for this MUD test is descriebed in NEK 606: 2004 Third edition.

## SHF1 versus SHF2

The table below addresses only some main characteristics differences. For complete information see IEC60092-359

	SHF1	SHF2
<b>Type of material</b>	Halogen-free Thermoplastic	Halogen-free Elastomeric or thermosetting material
<b>Some main characteristics</b>		
Mechanical characteristics after immersion in hot oil (IEC 60811-2-1, clause 10)* * If oil resistance is required for a halogen-free compound, SHF 2 compound is recommended.	No requirements	100 °C for 24 hours: <ul style="list-style-type: none"> <li>• ±40% maximum variation in tensile strength:</li> <li>• ±40% maximum variation in elongation at break</li> </ul>
Hot set test (IEC 60811-2-1, clause 9)	No requirements	200 °C, 15 min time under load with 20 (N/mm <sup>2</sup> ) mechanical stress: <ul style="list-style-type: none"> <li>• 175% Maximum elongation under load</li> <li>• 25% Maximum permanent elongation after cooling</li> </ul>
Pressure test at high temperature IEC 60811-3-1, subclause 8.2)	80 °C, 4-6 min under load depending on cable diameter: <ul style="list-style-type: none"> <li>• 50% Maximum permissible deformation</li> </ul>	No requirements
Heat shock test (IEC 60811-3-1, subclause 9.2)	150 °C) 1h duration:	No requirements
Ozone resistance test IEC 60811-2-1, clause 8 (Alternative test method may be used in some countries for legal reasons)	No requirements	25 ± 2°C for 24 h: <ul style="list-style-type: none"> <li>• Max 0,025 to 0,030 % ozone concentration (in volume)</li> </ul>



## Core colours for cables according to NEK 606

*Please look at the actual page for each cable type.*

**Instrumentation and communications cable for fixed installation (conductor size from 0,75 mm<sup>2</sup> and above) such as RFOU, BFOU, RU and BU 250V.**

Pair: Black -- Light blue

Triple: Black -- Light blue - Brown

Pairs and triples are identified by numbered tape with printed black numbers or by numbers printed directly on the insulated conductors.

## Power and control cables for fixed installation, such as RFOU, BFOU, RU and BU 0,6/1kV

1-core : Off-white

2-cores: Off-white - Black

3-cores: Off-white - Black - Red

4-cores: Off-white - Black - Red - Blue

5-cores: Off-white - Black - Red - Blue - Black

Above 5-cores : Black numbers on white base.

Separate earth conductor (if any): Yellow/green.

*From Q3 2007 the core colours on RFOU, BFOU, RU and BU 0,6/1kV will be changed to follow Cenelec HD 308S2 colours:*

<b>One core:</b>	<b>Black</b>
<b>Two cores:</b>	<b>Blue – Brown</b>
<b>Two cores + earth</b>	<b>Blue – Brown – Yellow/green</b>
<b>Three cores:</b>	<b>Brown - Black – Grey</b>
<b>Three cores + earth</b>	<b>Brown - Black – Grey – Yellow/green</b>
<b>Four cores:</b>	<b>Blue - Brown - Black– Grey</b>
<b>Four cores + earth</b>	<b>Blue - Brown - Black– Grey – Yellow/green</b>
<b>Five cores</b>	<b>Blue - Brown - Black– Grey - Black</b>

*Above 5-cores : Black numbers on white base.*

## Medium Voltage cables for fixed installation, RFOU

1-core : Off-white insulation + black semi-conductive layer.

3-cores : Off-white insulation + black semi-conductive layer identified by White-Black-Red threads under and over the metallic screen on each individual core.

Separate earth conductor (if any): Yellow/green

**Drum capacity in meters**

Free space mm.	30	30	30	30	30	30	30	40	50	60	60	60	60	70	70	80	90	100	Free space mm
Drum No:	R5	R6	R6T	R8	R9	R10	R10A	R11	R12	R14	R14A	R16	R16A	R18	R20	R22	R24	R26	Drum No:
Overall cable diam.mm																			Overall cable diam.mm
10	360	720	850	1470															10
12	250	500	565	1020	1440														12
14	185	370	425	770	1105	1520													14
16		280		550	825	1160		1335											16
18				450	620	920	570	1010	1510										18
20				375	510	745	460	850	1100	1565	1065								20
22					420	615	380	700	885	1925	880	1645							22
24					340	515	320	580	830	1075	740	1380	870						24
26						440	270	470	685	905	630	1175	740	1485					26
28						380	235	440	555	745	540	985	635	1255	1685				28
30						330	205	345	525	705	470	930	555	1045	1375				30
32							180	330	410	560	415	755	490	980	1300	1565			32
34							160		395	545	370	735	430	825	1105	1350			34
36							140		370	420	330	580	385	765	1035	1265			36
38							130		285	405	295	560	345	630	860	1070	1570		38
40							115			390	265	445	310	605	830	1035	1355	2060	40
42										300	240	430	285	485	640	820	1255	1870	42
44										285	220	410	260	460	620	790	1065	1700	44
46											200	390	235	440	595	760	1025	1560	46
48											185	315	215	445	595	635	895	1430	48
50											170	300	200	340	460	605	855	1320	50
52											160	285	185	320	440	580	820	1220	52
54											145	285	170	320	420	550	665	1130	54
56											135		160	300	420	445	670	1050	56
58											125		150	300	420	425	635	980	58
60											120		140	215	400	425	640	915	60
62													130	215	310	400	500	860	62
64													120		290	405	500	805	64
66													115		290	380	475	755	66
68													110		275	295	475	715	68
70													100		275	275	445	675	70
72															255	275	360	635	72
74															260	275	360	600	74
76																255	335	570	76
78																255	335	540	78



# Code designation for cables

A cable code of 2 - 4 letters is used to describe the construction.

Additional abbreviation for instrumentation cables: Collective screen = (c) Individual pair or triple screen = (i)

The interpretation ( per letter) can be read from the table below:

1st. letter: Insulation	2nd. letter Bedding / inner sheath	3rd. letter Armouring / screen	4th. letter Outer sheath
A Fibre, tight cladde	A Aluminium (optional with corrosion protection)	A Strength member yarn	A Yarn + bitumen
B Fire resistant tape + insulation (Halogen-free)	B Corrograted aluminium (o.w.c.p.)	B Steel tapes, 2 off	B Hydrocarbon resistant sheath
C Polychloroprene (Neoprene) PCP, or chlorinated polyethylene - CPE	C Polychloroprene (Neoprene) PCP, or chlorinated polyethylene - CPE	C Galvanized steel wire braid	C Polychloroprene (Neoprene) PCP, or chlorinated polyethylene - CPE
D Impregnated paper Drip free	D Aluminium + Plastics	D Oil filled cable reinforcement (Longitudinal / Transverse)	D
E Polyethylene - PE Polypropylene - PP	E Polyethylene - PE Polypropylene - PP	E Oil filled cable reinforcement (Transverse only)	E Polyethylene - PE Polypropylene - PP
F PE or PP + filling compound	F Bedding or taping (Halogen-free)	F Flat steel wire armour	F Semi-conducting PE
G Polyamid - PA	G	G	G PE + PA
H Chlorosulphonated polyethylene - CSP	H Chlorosulphonated polyethylene - CSP	H Steel tape + steel wires	H Chlorosulphonated polyethylene - CSP
I Thermoplastic compound (Halogen-free)	I Thermoplastic compound (Halogen-free)	I Steel tapes, 4 off	I Thermoplastic compound (Halogen-free)
K Paper	K Lead	K Steel wire, plastics or rubber coated	K Lead
L Air + plastics (Coaxial cable)	L Aluminium laminate + plastics sheath	L Aluminium (laminated to outer jacket)	L
M Expanded PE or PP + filling compound	M Polyester	M	M Polyester
N Impregnated paper	N Polyurethane	N Steel (laminated to outer jacket)	N Polyurethane
O Impregnated paper, oilfilled cable	O Lead + Plastics	O Copper wire braid (Tinned or bare)	O
P Polyvinylchloride - PVC	P Polyvinylchloride - PVC	P Phosphorbronze wire braid	P Polyvinylchloride - PVC
Q Fibre in loose tube	Q	Q Steel wires + counter steel tape (optional)	Q
R Ethylenepropylene rubber - EPR	R Ethylenepropylene rubber - EPR	R Steel wires (round) + filling compound	R Ethylenepropylene rubber - EPR
S Silicone rubber	S Bedding or taping + concentric conductor	S Concentric conductor (Screen)	S Silicone rubber
T Cross-linked polyethylene XLPE	T PE + aluminium wire + steel tape	T	T Cross-linked polyethylene XLPE
U Halogen-free thermoset compound EMA or EVA	U Halogen-free thermoset compound EMA or EVA	U	U Halogen-free thermoset compound EMA or EVA
V Fibre, slotted core	V Aluminium screen Other materials	V Double wire armour (two layers)	V Other halogen-free thermoset materials
W Other materials	W	W Catenary wire	W Other materials
X No insulation	X No bedding or equivalent	X No armour	X No sheath
Y	Y Screen	Y	Y
Z Flour plastics PTFE / FEP	Z Flour plastics	Z	Z Flour plastics

## Approvals

Our cables carry these major approvals

	Det norske Vertitas	Germanischer Lloyd	American bureau of shipping	Lloyds register of shipping	ETL	Bureau vertias	Russian Maritime register of shipping
RFOU 250V (c) (i)	•	•	•	•	•	•	•
RU 250V (c) (i)	•						
RFOU 0,6/1kV	•	•	•	•	•	•	•
RFOU 6/10kV	•				•		
RFOU 12/20 kV	•				•		
RU 0,6/1kV	•		•	•			
BFOU 250V (c) (i)	•	•	•	•	•	•	•
BU 250V (i) (c)	•		•	•			
BFOU 0,6/1kV	•	•	•	•	•	•	•
BU 0,6/1kV	•		•	•			
BFCU 250V (c) (i)	•		•	•*)			
BFCU 0,6/1kV	•		•	•*)			
RFCU 250V (c) (i)	•		•	•*)			
RFCU 0,6/1kV	•		•	•*)			

All cables are designed in accordance with IEC 60092-350, IEC 60092-353, IEC 60092-354 and IEC 60092-376 except those marked with \*). They are designed in accordance with BS 6883



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