

FlexFlame RFOU(c) 250V S2/S6/S102 Instr. cable



Flame retardant halogen-free instrumentation cable.

RFOU(c) 150/250(300)V

EPR/EPR/TCWB/EVA

RFOU(c) 250V NEK TS 606 Code S102

RFOU(c) M 250V NEK TS 606 Code S2/S6/S102

Operating temperature : 90°C
Operating Voltage : 150/250(300)V

Standards applied

Application

Fixed installation for instrumentation, communication, Control and alarm systems in both EX (Zone 0, 1 & 2)- and safe areas.
RFOU(c) M 250V for installation in areas exposed to MUD and drilling/cleaning fluids. Meets the Oil & Mud resistance requirement in NEK TS 606:2016.

IEC 60092-376 (2003-05)	- Design
IEC 60228 class 2	- Conductor
IEC 60092-360	- Insulation
IEC 60092-360	- Sheath
IEC 60332-1-2	- Flame Retardant
IEC 60332-3-22	- Flame Retardant
IEC 60754-1,2	- Halogen Free
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 60092-360 (EPR)
P / Triple / Quad twisting		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.
Inner covering	F	Flame retardant and halogen-free extruded 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 thermoset compound, SHF2 (IEC 60092-360)
Marking text (example)		"meter" "year/week" DRAKA 01 Part no. <SAP code> RFOU(c) M 250V S2/S6/S102 8 PAIR 0,75 mm ² IEC 60092-376 IEC 60332-3-22 Production no. <Prod.ordre no.>
Manufacturing unit		DRAKA 01 = Prysmian Group Norge AS
Outer sheath colour		Grey or Blue

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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 ²	Conductor Diameter, mm	Insulation Thickness, mm	Thickness Inner covering, mm	Diameter inner covering, mm	Diameter Braid Wire, mm	Mechanical cross-section of the braid, mm ²	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	9.5 ± 0.5	0.2	5.3	1.2	13 ± 0.8	270	81
4	2	0.75	1.1	0.6	1.1	11 ± 0.8	0.3	8.5	1.3	15 ± 0.8	385	138
8	2	0.75	1.1	0.6	1.1	15 ± 0.8	0.3	11.9	1.4	19 ± 0.8	600	220
12	2	0.75	1.1	0.6	1.4	17.5 ± 0.8	0.3	15.3	1.5	22 ± 1	810	304
16	2	0.75	1.1	0.6	1.9	20 ± 1	0.3	15.3	1.6	24.5 ± 1	1030	354
24	2	0.75	1.1	0.6	2.1	24.5 ± 1	0.3	20.4	1.8	29 ± 1	1440	504
2	3	0.75	1.1	0.6	1.1	10.5 ± 0.8	0.3	8.5	1.3	14.5 ± 0.8	350	125
4	3	0.75	1.1	0.6	1.1	12.5 ± 0.8	0.3	10.2	1.3	16 ± 0.8	465	179
8	3	0.75	1.1	0.6	1.1	16.5 ± 0.8	0.3	13.6	1.5	20.5 ± 1	735	287
2	2	1.5	1.55	0.7	1.1	12 ± 0.8	0.3	10.2	1.3	15.5 ± 0.8	405	157
4	2	1.5	1.55	0.7	1.1	14 ± 0.8	0.3	11.9	1.4	18 ± 0.8	550	223
8	2	1.5	1.55	0.7	1.1	18.5 ± 0.8	0.3	15.3	1.6	23 ± 1	875	357
12	2	1.5	1.55	0.7	1.4	22 ± 1	0.3	17.8	1.7	26.5 ± 1	1190	488
16	2	1.5	1.55	0.7	1.9	25 ± 1	0.3	20.4	1.8	29.5 ± 1	1555	615
24	2	1.5	1.55	0.7	2.3	30.5 ± 1.5	0.3	25.4	2.1	36 ± 1.5	2230	869
2	3	1.5	1.55	0.7	1.1	13 ± 0.8	0.3	10.2	1.4	17 ± 0.8	475	183
2	2	2.5	1.9	0.7	1.1	13 ± 0.8	0.3	10.2	1.4	17 ± 0.8	475	190
4	2	2.5	1.9	0.7	1.1	15 ± 0.8	0.3	11.9	1.4	19 ± 0.8	650	286
8	2	2.5	1.9	0.7	1.1	20.5 ± 1	0.3	17.8	1.7	25 ± 1	1110	507
12	2	2.5	1.9	0.7	2.1	26 ± 1	0.3	20.4	1.8	30.5 ± 1.5	1650	697

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 ²	100	0,67	26,3	12,7
Unshielded triple 0,75 mm ²	100	0,67	26,3	12,7
Unshielded Pair 1,5 mm ²	110	0,63	12,9	24,4
Unshielded triple 1,5 mm ²	110	0,63	12,9	24,4
Unshielded Pair 2,5 mm ²	125	0,59	8,02	36,8
Unshielded triple 2,5 mm ²	125	0,59	8,02	36,8

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Ordering information

Part number	Description	Sheath Colour	GTIN 1m	EL No.
20110611	RFOU(C) M 2P 0.75mm ² S2/S6/S102 GY	GREY	7021528926064	1044421
20110857	RFOU(C) M 2P 0.75mm ² S2/S6/S102 BU	BLUE	7021528926071	1044422
20110612	RFOU(C) M 4P 0.75mm ² S2/S6/S102 GY	GREY	7021528926187	1044423
20110613	RFOU(C) M 4P 0.75mm ² S2/S6/S102 BU	BLUE	7021528926194	1044424
20110614	RFOU(C) M 8P 0.75mm ² S2/S6/S102 GY	GREY	7021528926309	1044428
20110772	RFOU(C) M 8P 0.75mm ² S2/S6/S102 BU	BLUE	7021528926316	1044429
20110615	RFOU(C) M 12P 0.75mm ² S2/S6/S102 GY	GREY	7021528926361	1044430
20114583	RFOU(C) M 12P 0.75mm ² S2/S6/S102 BU	BLUE	7021528926378	1044431
20109493	RFOU(C) M 16P 0.75mm ² S2/S6/S102 GY	GREY	7021528926422	1044433
20170934	RFOU(C) M 16P 0.75mm ² S2/S6/S102 BU	BLUE	7021528926439	1044432
20109494	RFOU(C) M 24P 0.75mm ² S2/S6/S102 GY	GREY	7021528926484	1044438
20110858	RFOU(C) M 2T 0.75mm ² S2/S6/S102 GY	GREY	7021528926668	1044490
20110616	RFOU(C) M 2T 0.75mm ² S2/S6/S102 BU	BLUE	7021528926675	1044491
20110859	RFOU(C) M 4T 0.75mm ² S2/S6/S102 GY	GREY	7021528926781	1044492
20135680	RFOU(C) M 4T 0.75mm ² S2/S6/S102 BU	BLUE	7021528926798	1044493
20120514	RFOU(C) M 8T 0.75mm ² S2/S6/S102 GY	GREY	7021528926903	1044496
20110617	RFOU(C) M 2P 1.5mm ² S2/S6/S102 GY	GREY	7021528928068	1044461
20110618	RFOU(C) M 2P 1.5mm ² S2/S6/S102 BU	BLUE	7021528928075	1044462
20110619	RFOU(C) M 4P 1.5mm ² S2/S6/S102 GY	GREY	7021528928181	1044463
20110620	RFOU(C) M 4P 1.5mm ² S2/S6/S102 BU	BLUE	7021528928198	1044464
20110621	RFOU(C) M 8P 1.5mm ² S2/S6/S102 GY	GREY	7021528928303	1044468
20164158	RFOU(C) M 8P 1.5mm ² S2/S6/S102 BU	BLUE	7021528928310	1044469
20110622	RFOU(C) M 12P 1.5mm ² S2/S6/S102 GY	GREY	7021528928365	1044470
20109495	RFOU(C) M 16P 1.5mm ² S2/S6/S102 GY	GREY	7021528928426	1044472
20110860	RFOU(C) M 24P 1.5mm ² S2/S6/S102 GY	GREY	7021528928488	1044478
20110861	RFOU(C) M 2T 1.5mm ² S2/S6/S102 GY	GREY	7021528928662	1044561
20138640	RFOU(C) M 2T 1.5mm ² S2/S6/S102 BU	BLUE	7021528928679	-
20195591	RFOU(C) M 2P 2.5mm ² S2/S6/S102 GY	GREY	7021528930061	-
20120742	RFOU(C) M 4P 2.5mm ² S2/S6/S102 GY	GREY	7021528930184	-
20110862	RFOU(C) M 4P 2.5mm ² S2/S6/S102 BU	BLUE	7021528930191	-
20151457	RFOU(C) M 8P 2.5mm ² S2/S6/S102 GY	GREY	7021528930306	-
20110863	RFOU(C) M 12P 2.5mm ² S2/S6/S102 GY	GREY	7021528930368	-

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 x total cross section (mm ²) of conductors	-20°C