

RFOU 8.7/15 (17.5)kV P4 P11

EPR/EPR/TCWB/EVA

Halogen-free, mud resistant, flame retardant, MV power cable



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. Meets the MUD resistance requirement in NEK TS 606:2009.

Construction

Conductor	: Tinned stranded and compressed copper (STCC), IEC 60228 class 2
Conductor screen semi-conductive	: Semi-conductive layer (EP-rubber)
Insulation	: EP-rubber, IEC 60092-360 (EPR)
Insulation screen semi-conductive	: Semi-conductive layer (EP-rubber)
Lay up / Shielding	: Cores are laid up together. Cores are identified by Brown, Black or Grey threads under and over the metallic screen on each conductor.
Inner covering	: Flame retardant and halogen-free thermoset compound
Tape over inner covering	: PET tape
Armour/screen	: Tinned annealed copper wire braid
Tape over armour/screen	: PET tape
Outer sheath	: Flame retardant, halogen-free and mud resistant thermoset compound, SHF2 (IEC 60092-360)
Marking text	: E.g. "meter" "year" manufacturer RFOU 8,7/15(17,5)KV P4/P11 1 x 300/29 mm ² IEC 60332-3-22

Outer Sheath Colours

Available colours : Red

Installation recommendations

Min. Bending Radius during Installation	: 15xD
Min. Bending Radius Fix Installed	: 9xD
Max. Conductor Operating Temperature	: 90°C

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Standards applied

IEC 60092-353	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

Range and Dimensions

Article Code	Number of elements	Size Cross-Section in mm ²	Nominal diameter inner covering, mm	Diameter braid wire, mm	Mechanical cross-section of the braid, mm ²	Nominal diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)
N02F01C025BAKRD8	1	25	22	0.4	35	28.0	1370
N02F01C035BAKRD8	1	35	23.0	0.4	27.1	29.0	1500
N02F01C050BAKRD8	1	50	24.0	0.4	27.1	30.5	1700
N02F01C070BAKRD8	1	70	26.0	0.4	27.1	32.0	2000
N02F01C095BAKRD8	1	95	28.0	0.4	31.7	34.5	2450
N02F01C120BAKRD8	1	120	29.5	0.4	31.7	36.0	2700
N02F01C150BAKRD8	1	150	31.0	0.4	31.7	38.0	3000
N02F01C185BAKRD8	1	185	33.0	0.4	31.7	39.5	3500
N02F01C240BAKRD8	1	240	35.0	0.4	36.2	42.0	4300
N02F01C300BAKRD8	1	300	37.5	0.4	40.7	44.5	5000
N02F01C400BAKRD8	1	400	42	0.4	49.8	49.5	6250
N02F03C025BCCRD8	3	25	46.5	0.5	35	55	4800
N02F03C035BCCRD8	3	35	49.0	0.5	49.5	57.5	5400
N02F03C050BCCRD8	3	50	52.0	0.5	56.5	61.0	6100
N02F03C070BCCRD8	3	70	55.5	0.5	56.5	64.5	7250
N02F03C095BCCRD8	3	95	59	0.5	70.7	68.5	8500
N02F03C120BCCRD8	3	120	62.5	0.5	84.8	72	9750
N02F03C150BCCRD8	3	150	66.0	0.6	112	76.0	11150
N02F03C185BCCRD8	3	185	69.5	0.6	122.1	80.0	13200
N02F03C240BCCRD8	3	240	74.5	0.6	122.1	85.5	15650
N02F03C300BCCRD8	3	300	80.0	0.6	122.1	91.0	17800

Note: Subject to change without prior notice. Nominal diameter can have a tolerance of -5% or +5%.

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Electrical value instrumentation cables, conductor type 2 STCC

Number of elements	Size Cross-Section in mm ²	Electrical Cross section braid, mm 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	25	20	0.734	0.936	0.151	0.181	210	127	3500
1	35	20	0.529	0.675	0.145	0.174	230	157	4900
1	50	20	0.391	0.499	0.137	0.165	250	196	7000
1	70	20	0.270	0.344	0.130	0.156	280	242	9800
1	95	20	0.195	0.249	0.125	0.150	310	293	13300
1	120	20	0.154	0.196	0.120	0.144	340	339	16800
1	150	20	0.126	0.161	0.116	0.140	370	389	21000
1	185	20	0.100	0.128	0.113	0.135	400	444	25900
1	240	25	0.0762	0.0972	0.109	0.130	440	522	33600
1	300	29	0.0607	0.0774	0.105	0.126	480	601	42000
1	400	30	0.047	0.059	0.101	0.121	550	690 dc / 670 ac	56000
3	25	35	0.734	0.936	0.127	0.152	210	89	3500
3	35	35	0.529	0.675	0.122	0.146	230	110	4900
3	50	40	0.391	0.499	0.115	0.138	250	137	7000
3	70	40	0.270	0.344	0.109	0.131	280	169	9800
3	95	55	0.195	0.249	0.104	0.125	310	205	13300
3	120	60	0.154	0.196	0.100	0.121	340	237	16800
3	150	80	0.126	0.161	0.097	0.117	370	272	21000
3	185	95	0.100	0.128	0.097	0.117	400	311	25900
3	240	95	0.0762	0.0972	0.091	0.109	440	365	33600
3	300	95	0.0607	0.0774	0.088	0.106	480	421	42000

NOTICE

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