

RFOU 6/10 (12)kV P3 P10

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 6/10(12)KV P3/P10 3 x 95/50 mm ² IEC 60332-3-22

Outer Sheath Colours

Available colours	: Red
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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)
N02E01C016BAKRD12	1	16	18.5	0.3	12.7	24.0	900
N02E01C025BAKRD12	1	25	20.0	0.3	12.7	25.0	1100
N02E01C035BAKRD12	1	35	21.0	0.3	12.7	26.0	1200
N02E01C050BAKRD12	1	50	22.0	0.3	12.7	28.0	1450
N02E01C070BAKRD12	1	70	23.5	0.3	17.8	30.0	1700
N02E01C095BAKRD12	1	95	25.5	0.3	20.4	32.0	2100
N02E01C120BAKRD12	1	120	27.5	0.3	22.9	34.0	2350
N02E01C150BAKRD12	1	150	28.5	0.3	20.4	35.0	2600
N02E01C185BAKRD12	1	185	30.5	0.3	20.4	36.5	3100
N02E01C240BAKRD12	1	240	33.0	0.3	22.9	39.0	3800
N02E01C300BAKRD12	1	300	35	0.3	30.5	41.5	4600
N02E01C400BAKRD12	1	400	36	0.4	40.7	45.5	5900
N02E01C500BAKRD12	1	500	41.5	0.4	49.8	49.5	7350
N02E01C630BAKRD12	1	630	46.5	0.4	49.8	54.5	8750
N02E03C016BCCRD12	3	16	39.0	0.4	36.2	46.0	3300
N02E03C025BCCRD12	3	25	42.0	0.4	31	49.5	3800
N02E03C035BCCRD12	3	35	43.5	0.4	35	51.5	4300
N02E03C050BCCRD12	3	50	47.0	0.4	31	55	5000
N02E03C070BCCRD12	3	70	50.0	0.4	40.7	58.5	6000
N02E03C095BCCRD12	3	95	54.0	0.4	54.3	62.5	7500
N02E03C120BCCRD12	3	120	57.5	0.5	70.7	66.5	8350
N02E03C150BCCRD12	3	150	60	0.6	86.5	70.5	9800
N02E03C185BCCRD12	3	185	64.5	0.5	56.5	74.0	11300
N02E03C240BCCRD12	3	240	69.5	0.5	63.6	79.5	13300
N02E03C300BCCRD12	3	300	74.5	0.5	70.7	85.0	16300

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 sec, Ampere
1	16	11	1.16	1.48	0.154	0.185	220	96	2240
1	25	11	0.734	0.936	0.144	0.173	250	127	3500
1	35	11	0.529	0.675	0.138	0.166	270	157	4900
1	50	11	0.391	0.499	0.132	0.158	300	196	7000
1	70	16	0.270	0.344	0.125	0.150	340	242	9800
1	95	16	0.195	0.249	0.119	0.142	380	293	13300
1	120	20	0.154	0.196	0.116	0.139	410	339	16800
1	150	19	0.126	0.161	0.111	0.133	450	389	21000
1	185	18	0.100	0.128	0.108	0.130	480	444	25900
1	240	21	0.0762	0.0972	0.104	0.125	540	522	33600
1	300	29	0.0607	0.0774	0.104	0.124	590	601	42000
1	400	35	0.0475	0.0606	0.090	0.118	660	690 dc 670 ac	56000
1	500	40	0.0369	0.0471	0.097	0.117	720	780 dc 720 ac	70000
1	630	40	0.0286	0.0365	0.092	0.110	840	890 dc 780 ac	88200
3	16	32	1.16	1.48	0.119	0.143	220	67	2240
3	25	31	0.734	0.936	0.119	0.143	250	89	3500
3	35	35	0.529	0.675	0.114	0.137	270	110	4900
3	50	31	0.391	0.499	0.108	0.130	300	137	7000
3	70	35	0.270	0.344	0.103	0.124	340	169	9800
3	95	50	0.195	0.249	0.098	0.118	380	205	13300
3	120	60	0.154	0.196	0.095	0.114	410	237	16800
3	150	75	0.126	0.161	0.092	0.111	450	272	21000
3	185	45	0.100	0.128	0.092	0.111	480	311	25900
3	240	53	0.0762	0.0972	0.087	0.104	540	365	33600
3	300	55	0.0607	0.0774	0.084	0.101	590	421	42000

NOTICE

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