

RFOU 12/20 (24)kV P19 P21

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 12/20(24)KV P19/P21 3 x 95/50 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)
N02C01C016BAKRD10	1	16	22.5	0.3	15.3	28	1200
N02C01C025BAKRD10	1	25	24	0.3	15.3	29.5	1300
N02C01C035BAKRD10	1	35	25	0.3	15.3	31	1450
N02C01C050BAKRD10	1	50	26.5	0.3	17.8	32.5	1700
N02C01C070BAKRD10	1	70	28	0.3	15.3	34	2000
N02C01C095BAKRD10	1	95	30	0.3	20.4	36	2400
N02C01C120BAKRD10	1	120	31.5	0.3	17.8	38	2650
N02C01C150BAKRD10	1	150	33	0.3	17.8	40	3000
N02C01C185BAKRD10	1	185	35	0.3	20.4	41.5	3500
N02C01C240BAKRD10	1	240	37.5	0.3	25.4	45.0	4350
N02C01C300BAKRD10	1	300	41.0	0.3	30.5	47.0	5200
N02C01C400BAKRD10	1	400	44.8	0.3	40.0	51.5	6500
N02C03C016BCCRD10	3	16	48	0.4	36.2	55.5	9300
N02C03C025BCCRD10	3	25	51	0.4	40.7	58.5	4950
N02C03C035BCCRD10	3	35	53	0.4	40.7	61	5500
N02C03C050BCCRD10	3	50	57.0	0.4	40.7	65.5	6500
N02C03C070BCCRD10	3	70	60	0.4	40.7	68.5	7500
N02C03C095BCCRD10	3	95	64.5	0.5	56.5	73.5	9300
N02C03C120BCCRD10	3	120	67.5	0.5	70.7	77	10250
N02C03C150BCCRD10	3	150	71.0	0.5	91.9	80.0	11700
N02C03C185BCCRD10	3	185	75.0	0.5	56.5	85.0	12950
N02C03C240BCCRD10	3	240	79.5	0.5	70.7	90.0	15900

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	16	13	1.16	1.479	0.164	0.197	170	96	2240
1	25	13	0.734	0.936	0.154	0.185	190	127	3500
1	35	13	0.529	0.675	0.149	0.178	200	157	4900
1	50	15	0.391	0.499	0.140	0.169	220	196	7000
1	70	13	0.270	0.344	0.133	0.160	250	242	9800
1	95	17	0.195	0.249	0.127	0.152	270	293	13300
1	120	15	0.154	0.196	0.124	0.149	300	339	16800
1	150	15	0.126	0.161	0.119	0.142	320	389	21000
1	185	18	0.100	0.128	0.116	0.139	340	444	25900
1	240	23	0.0762	0.0972	0.112	0.134	380	522	33600
1	300	28	0.0607	0.0774	0.108	0.130	410	601	42000
1	400	35	0,0475	0,0606	0.105	0.126	490	690 dc / 670 ac	56000
3	16	31	1.16	1.48	0.143	0.172	170	67	2240
3	25	35	0.734	0.936	0.133	0.160	190	89	3500
3	35	35	0.529	0.675	0.128	0.153	200	110	4900
3	50	35	0.391	0.499	0.121	0.145	220	137	7000
3	70	35	0.270	0.344	0.115	0.135	250	169	9800
3	95	50	0.195	0.249	0.109	0.131	270	205	13300
3	120	60	0.154	0.196	0.105	0.126	300	237	16800
3	150	75	0.126	0.161	0.102	0.122	320	272	21000
3	185	45	0.100	0.128	0.099	0.118	340	311	25900
3	240	55	0.0762	0.0972	0.095	0.114	380	365	33600

NOTICE

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