

RFOU 3,6/6 (7,2)kV P2 P9

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.

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 3,6/6(7,2)KV P2/P9 3 x 120/60 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	Cross section screen mm ²	Nominal diameter inner covering, mm	Diameter braid wire, mm	Nominal diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)
N02C01C016BAKRD6	1	16	11	16,5	0,3	22,0	850
N02C01C025BAKRD6	1	25	11	18,0	0,3	23,0	970
N02C01C035BAKRD6	1	35	13	19,0	0,3	24,0	1150
N02C01C050BAKRD6	1	50	13	20,5	0,3	25,5	1300
N02C01C070BAKRD6	1	70	16	22,0	0,3	27,5	1600
N02C01C095BAKRD6	1	95	16	24,0	0,3	29,5	2000
N02C01C120BAKRD6	1	120	20	25,0	0,4	31,5	2300
N02C01C150BAKRD6	1	150	22	27,0	0,4	33,5	2710
N02C01C185BAKRD6	1	185	25	28,5	0,4	35,0	3230
N02C01C240BAKRD6	1	240	25	31,5	0,4	37,5	3930
N02C01C300BAKRD6	1	300	30	34,0	0,4	41,0	4700
N02C03C016BCCRD6	3	16	35	34,5	0,4	42,0	3100
N02C03C025BCCRD6	3	25	35	37,5	0,4	45,0	3570
N02C03C035BCCRD6	3	35	35	39,5	0,4	47,0	4020
N02C03C050BCCRD6	3	50	35	43,0	0,4	50,5	4700
N02C03C070BCCRD6	3	70	45	46,0	0,5	54,5	5900
N02C03C095BCCRD6	3	95	50	50,0	0,5	58,5	7200
N02C03C120BCCRD6	3	120	60	53,5	0,5	62,5	8200
N02C03C150BCCRD6	3	150	75	56,5	0,5	66,5	9600
N02C03C185BCCRD6	3	185	95	60,5	0,6	70,0	11250
N02C03C240BCCRD6	3	240	95	66,5	0,6	77,0	14000
N02C03C300BCCRD6	3	300	95	70,0	0,6	80,5	16500

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	Cross section screen 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	11	1,16	1,48	0,149	0,179	310	96	2240
1	25	11	0,734	0,936	0,139	0,167	360	127	3500
1	35	13	0,529	0,675	0,133	0,160	390	157	4900
1	50	13	0,391	0,499	0,126	0,152	440	196	7000
1	70	16	0,270	0,344	0,121	0,145	490	242	9800
1	95	16	0,195	0,249	0,115	0,138	560	293	13300
1	120	20	0,154	0,196	0,119	0,143	610	339	16800
1	150	22	0,126	0,161	0,109	0,131	660	389	21000
1	185	25	0,100	0,128	0,105	0,127	730	444	25900
1	240	25	0,0762	0,0972	0,102	0,122	780	522	33600
1	300	30	0,0607	0,0774	0,099	0,119	810	601	42000
3	16	35	1,16	1,48	0,121	0,145	310	67	2240
3	25	35	0,734	0,936	0,112	0,135	360	89	3500
3	35	35	0,529	0,675	0,108	0,129	390	110	4900
3	50	35	0,391	0,499	0,102	0,123	440	137	7000
3	70	45	0,270	0,344	0,097	0,117	490	169	9800
3	95	50	0,195	0,249	0,093	0,112	560	205	13300
3	120	60	0,154	0,196	0,090	0,108	610	237	16800
3	150	75	0,126	0,161	0,088	0,105	660	272	21000
3	185	95	0,100	0,128	0,085	0,102	730	311	25900
3	240	95	0,0762	0,0972	0,083	0,100	780	365	33600
3	300	95	0,0607	0,0774	0,082	0,098	810	421	42000

NOTICE

Incore Cables has endeavored to ensure the accuracy of the data in this publication, however we cannot be liable for the consequences of errors or omissions. All data is subject to change without notice. The installer and/or user assumes all liability for the consequences of the installation and/or use of any of our products in contravention of any applicable law, regulation or code.

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