

RFOU 18/30 (36)kV P20 P22

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 18/30(36)KV P20/P22 3x 120/60 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)
N02H01C050BAKRD15	1	50	32.0	0.4	36.2	38.5	2500
N02H01C070BAKRD15	1	70	33,5	0,4	36.2	40,0	3000
N02H01C095BAKRD15	1	95	35.0	0.4	40.7	42,0	3400
N02H01C120BAKRD15	1	120	37.0	0.4	40.7	44.0	3500
N02H01C150BAKRD15	1	150	39,0	0,4	45.2	45,5	3900
N02H01C185BAKRD15	1	185	40.0	0.4	49.8	47.5	4600
N02H01C240BAKRD15	1	240	42.0	0.4	49.8	50.0	5400
N02H01C300BAKRD15	1	300	45,0	0,4	54.3	53,0	6200
N02H03C035BCCRD15	3	35	65.0	0,6	112	74.5	7750
N02H03C070BCCRD15	3	70	70.0	0,6	122	80.5	10500
N02H03C095BCCRD15	3	95	74.0	0.6	122	85.0	11850
N02H03C120BCCRD15	3	120	78.0	0,6	122	88,0	13000

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

Electrical value instrumentation cables, conductor type 2 STCC

Number of elements	Size Cross-Section in 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	50	0.391	0.499	0.152	0.182	180	196	7000
1	70	0.270	0.344	0.145	0.174	190	242	9800
1	95	0.195	0.249	0.138	0.165	210	293	13300
1	120	0.154	0.193	0.133	0.160	190	339	16800
1	150	0.126	0.161	0.129	0.154	250	389	21000
1	185	0.097	0.122	0.125	0.149	265	444	25900
1	240	0,0762	0,0972	0.120	0.143	290	522	33600
1	300	0.0607	0.0774	0.115	0.135	270	601	42000
3	35	0.529	0.675	0.141	0.170	160	110	4900
3	70	0.270	0.344	0.126	0.151	190	169	9800
3	95	0.195	0.249	0.117	0.141	180	205	13300
3	120	0.154	0.196	0.115	0.135	230	237	16800

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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