

RFOU-VFD 0.6/1 (1.8/3)kV class 2

EPR/EPR/TCWB/EVA

Halogen-free, mud resistant, flame retardant power cable with class 2 conductor



Application

Special cable for Variable Frequency Drives / Azimuth motors up to 1kV. Suitable for voltage peaks up to 3600V. Armoured cable for fixed installations in ships and offshore units. Can be installed and operated both indoors and outdoors. Oil and MUD resistant to NEK 606.

Construction

Conductor	: Circular, tinned, stranded copper. IEC 60228 Class 2
Insulation	: EP-rubber
Bedding	: Flame retardant halogen-free thermoset compound
Armour	: Cu/PETP-tape, Tinned copper wire braid (Shield coverage is 100%), PETP-tape
Outer sheath	: Flame retardant, halogen-free and mud resistant thermoset compound, SHF2
Marking text	: E.g. "meter" "year" manufacturer RFOU-VFD 0,6/1kV (1,8/3) kV 3 x 95/50 mm ² , IEC 60332-3-22

Core Identification

Three cores : Brown, black, grey

Outer Sheath Colours

Available colours : Yellow or black

Installation recommendations

Min. Bending Radius during Installation	: 8xD
Min. Bending Radius Fix Installed	: 6xD
Max. Conductor Operating Temperature	: 90°C

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Standards applied

IEC 60092-353	Design
IEC 60228 class 2	Conductor
IEC 60092-351	Insulation
IEC 60092-359	Sheath
IEC 60332-1	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 cores	Conductor diameter approx. mm	Thickness of outer sheath, nominal mm	Nominal diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)
N02V03C2.5/10BBABK5	3x 2.5/10	2.0	1.5	20.5	690
N02V03C004/10BBABK5	3x 4/10	2.55	1.5	21.5	780
N02V03C006/10BBABK5	3x 6/10	3.15	1.6	23.5	940
N02V03C010/10BBABK5	3x 10/10	4.05	1.6	25	1130
N02V03C016/16BBABK5	3x 16/16	5.15	1.7	29	1560
N02V03C025/16BBABK5	3x 25/16	6.75	1.8	33	2090
N02V03C050/25BBABK5	3x 50/25	9.10	2	38.5	3110
N02V03C070/35BBABK5	3x 70/35	10.85	2.2	43	4160
N02V03C095/50BBABK5	3x 95/50	12.60	2.3	49	5420
N02V03C120/60BBABK5	3x 120/60	14.20	2.5	53	6590
N02V03C150/70BBABK5	3x 150/70	15.90	2.7	56.5	7800
N02V03C185/95BBABK5	3x 185/95	17.7	2.8	63	9660
N02V03C240/120BBABK5	3x 240/120	20.15	3	68.5	11970

Note: Subject to change without prior notice.

Nominal diameter can have a tolerance of -5% or +5%.

Electrical value instrumentation cables

Number of cores	Resistance at 20°C ohm/km	Resistance at 90°C ohm/km	Reactance at 50Hz Ohm/km	Current rating at 45°C Ampere	Short circuit rating 1 sec. Ampere
3x 2.5/10	7.56	9.64	0.131	21	350
3x 4/10	4.7	5.99	0.122	28	560
3x 6/10	3.11	3.97	0.114	36	840
3x 10/10	1.84	2.35	0.105	50	1400
3x 16/16	1.16	1.48	0.098	67	2240
3x 25/16	0.734	0.936	0.091	89	3500
3x 50/25	0.391	0.499	0.084	137	7000
3x 70/35	0.270	0.344	0.081	169	9800
3x 95/50	0.195	0.249	0.080	205	13300
3x 120/60	0.154	0.196	0.078	237	16800
3x 150/70	0.126	0.161	0.076	273	21000
3x 185/95	0.100	0.128	0.074	311	25900
3x 240/120	0.0762	0.0972	0.073	366	33600

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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