

RFOU-VFD 0.6/1 (1.8/3)kV class 5

EPR/EPR/TCWB/EVA

Halogen-free, mud resistant, flame retardant power cable with class 5 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	: Tinned, annealed, flexible copper, IEC 60228 class 5
Insulation	: EP-rubber, IEC 60092-360 (EPR)
Lay up	: 3 Insulated phase-conductors are laid up with 3 insulated earth conductors
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 thermoset compound, SHF2 (IEC 60092-360)
Marking text	: E.g. "meter" "year" manufacturer RFOU – VFD 0,6/1(1,8/3)kV 3 x 95 + 3 x 16 mm ² , IEC 60332-3-22

Core Identification

Three main power cores	: Brown, black, grey
All three earth cores	: Yellow/green

Outer Sheath Colours

Available colours	: Yellow or black
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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)
N02V03C010WEBAYE5/4	3x10 / 3x4	4,3 / 2,7	1,6	29,0	1470
N02V03C025WEBAYE5/6	3x25 / 3x6	7,2 / 3,3	1,8	33,5	2180
N02V03C035WEBAYE5/6	3x35 / 3x6	8,45 / 3,3	1,9	36,5	2540
N02V03C050WEBAYE5/10	3x50 / 3x10	10,65 / 4,3	2,0	41,5	3500
N02V03C095WEBAYE5/16	3x95 / 3x16	14,3 / 5,9	2,3	51,0	5690
N02V03C095WEBAYE5/25	3x95 / 3x25	14,3 / 7,2	2,3	52	6000
N02V03C120WEBAYE5/25	3x120 / 3x25	16,6 / 7,2	2,5	57,0	7130
N02V03C150WEBAYE5/16	3x150 / 3x16	18,1 / 5,9	2,6	60,5	8200
N02V03C150WEBAYE5/25	3x150 / 3x25	18,1	2,6	60,5	8390
N02V03C150WEBAYE5/35	3x150 / 3x35	18,1	2,6	60,5	8560
N02V03C185WEBAYE5/16	3x185 / 3x16	19,9 / 5,9	2,7	65,0	9550

Note: Subject to change without prior notice.

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

Electrical value instrumentation cables

Number of elements	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
3x10 / 3x4	1,95 / 5,09	2,49 / 6,49	0,083	50	1400
3x25 / 3x6	0,795 / 3,39	1,014 / 4,323	0,089	89	3500
3x35 / 3x6	0,565 / 3,39	0,668 / 4,323	0,086	110	4900
3x50 / 3x10	0,393 / 1,95	0,501 / 2,486	0,081	137	7000
3x95 / 3x16	0,210 / 1,24	0,268 / 1,58	0,077	205	13300
3x95 / 3x25	0,210 / 0,795	0,268 / 1,014	0,077	205	13300
3x120 / 3x25	0,164 / 0,795	0,209 / 1,014	0,075	237	16800
3x150 / 3x16	0,132 / 1,24	0,1683 / 1,58	0,074	272	21000
3x150 / 3x25	0,132 / 0,795	0,1683 / 1,013	0,074	272	21000
3x150 / 3x35	0,132 / 0,565	0,1683 / 0,7204	0,074	272	21000
3x185 / 3x16	0,108 / 1,24	0,1683 / 1,58	0,073	311	25900

NOTICE

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