

FEP (High Temperature cables)



TECHNICAL FEATURES

Operating temperature:	-60°C ÷ +180°C on the conductor
Rated voltage:	450/750V
Testing Voltage	2,5 kV
Current carrying capacity	Acc. DIN VDE, see technical sheet
Conductor material	Bare, tinned, Ni plated, Ag plated Cu, Ni, Ag strand
Conductor Class	Class 5 DIN VDE 0295 resp IEC 60228
Core insulation	Fluorinated Ethylene Propylene - FEP
Outer sheath (multicore)	Fluorinated Ethylene Propylene - FEP
Printing	On request
Max. temp. of short circuit:	200° C (max. 5 sec)

ALSO AVAILABLE

ETFE	-65°C +105°C
MFA	-100°C +240°C
PFA	-100°C +250°C
PTFE Lapped and sintered	-100°C +260°C

APPLICATION

FEP cables are employed where insulations are subjected to extreme changes in temperature. Due to good resistance in all weather conditions these cables can also be employed at temperatures as low as - 60 °C. Recommended for internal wiring of appliances even if not totally enclosed and protected. Good resistance against substances like oils and chemical solvents. FEP cables are most suitable for power plants. They have become indispensable in a wide range of industrial cooking equipment, cement, glass and ceramic factories ship and aircraft construction.

SPECIAL FEATURES

Cable suitable for dry, humid or wet environments, where high and low temperature resistance is needed and/or resistance to chemical solutions. Very strong mechanical resistance and strong resistance to abrasion. Low dielectric constant.

REMARKS

Conform to RoHS
CE acc. to EC Low-Voltage Directive 73/23/EEC and 93/68/EEC.
Lead free CEI 20-52
Customized versions on demand

Section	Nom. O.D.	Copper weight	Approx. Cable weight
mm ²	mm	kg/km	kg/km
0,25	1,45	2,4	4
0,50	1,70	4,8	6,5
0,75	1,85	7,2	9,7
1,00	2,00	9,6	12
1,50	2,40	14,4	17,0
2,50	3,10	24,0	27,5
4,00	3,65	38,4	43,0
6,00	4,20	57,6	59,0

Multicore

Section	Nom. O.D.	Copper weight	Approx. Cable weight
mm ²	mm	kg/km	kg/km
2x0.5	4,4	9,6	25,5
2x0.75	4,9	14,4	32,9
2x1	5,1	19,2	37,8
2x1.5	6,3	28,8	57,6
2x2.5	7,5	48	85,3
3x0.5	4,6	14,4	32,4
3x0.75	5,2	21,6	43,4
3x1	5,4	28,8	50,4
3x1.5	6,6	43,2	75,6
3x2.5	7,9	72	114
4x0.5	5,0	19,2	40,5
4x0.75	6,0	28,8	58,9
4x1	6,2	38,4	67,9
4x1.5	7,2	57,6	95,8
4x2.5	8,8	96	149
5x0.5	5,8	24	53,2
5x0.75	6,5	36	70,6
5x1	6,7	48	81,4
5x1.5	8,0	72	118
5x2.5	9,9	120	188
7x0.5	6,2	33,6	67,7
7x0.75	7,0	50,4	91,4
7x1	7,3	67,2	107
7x1.5	8,6	100,8	155
7x2.5	10,7	168,0	249

CIVIL AND INDUSTRIAL CABLES



The data and sketches of this technical leaflet are not binding and can be varied as a consequence of modifications and/or improvements deemed necessary by the manufacturer. Tolerances on weights and diameters ± 5%.