RE-2G(St)H-CI MP FE180 90° C

CU/SH/OSCR/LSZH

Instrumentation and Control Cables 500 V

Silicone insulated, collective screened, HFFR sheathed cable

RE-2G(St)H-CI FE180

Construction:

Conductor	: stranded copper wires, class 2.
Insulation	: special silicone rubber compound.
Lay-up	: triples laid up in layers of optimum pitch.
Separator	: polyester tape.
Screen	: AL-PES tape over stranded tinned copper drain wire 0,50 mm².
Outer sheath	: HFFR compound.
Sheath colour	: RAL 3000, Red.

Technical data and tests:

Conductor resistance	: 0,50 mm² : 36,0 Ω/km;
	0,75 mm² : 24,5 Ω/km;
	1,0 mm² : 18,1 Ω/km;
	1,3 mm² : 13,9 Ω/km;
	1,5 mm² : 12,1 Ω/km;
	2,5 mm² : 7,4 Ω/km.
Insulation resistance	: min. 300 MΩ/km.
Mutual capacitance (1 kHz)	: max. 150 pF/m.
L / R (ratio) (max.)	: 0,50 mm² : 25 µH/Ω;
	0,75 mm² : 25 µH/Ω;
	1,0 mm² : 25 µH/Ω;
	1,3 mm² : 40 µH/Ω;
	1,5 mm² : 40 µH/Ω;
	2,5 mm² : 60 µH/Ω.

Technical data and tests:

Rated voltage	: 500 V.
Test voltage	: Urms core-core : 2000 V;
	Urms core-screen : 2000 V.
Temperature range	: operation : - 30° C ~ + 90° C;
	installation : - 5° C ~ + 50° C.
Min. bending radius:	7.5 x D.

Standards:

Design	: EN 50288-7.
Conductor	: IEC 60228 class 2, DIN EN 60228 class 2.
Outer sheath	: EN 50290-2-27.
Flame test	: IEC 60332-1 & DIN EN 60332-1.
	IEC 60332-3 & DIN EN 50266-2-4.
Smoke density	: IEC 61034-2 & DIN EN 61034-2.
Halogen-free	: IEC 60754-1/2 & DIN EN 50267-2.
Circ. integrity (CI)	: IEC 60331, VDE 0472-814;
	BS 6387 cat. CWZ.

Any other construction available upon request.

Applications:

These cables are used for control purposes (e.g. controlling of pumps, valves or engines) at chemistry and petrochemistry industry plants, power plants, natural gas and petroleum plants, etc… These cables are used in environments which must have no corrosive gases emitted in the event of fire. In case of fire, these cables inhibit the propagation of the flames whereby the development of smoke is extremely low. Instrumentation cables are not allowed for direct connection to a low impedance source, e.g. public mains electricity supply. With blue sheath it is suitable for intrinsically safe systems. These cables are not recommended for direct burial. They are for indoor and outdoor installation, in dry and wet locations; on racks, trays, in conduits.

DIMENSIONS

No. of cores x cross section mm²	Approx. outer diameter mm	Copper weight kg/km	Approx. cable weight kg/km
1x2x1	7,2	24	72

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