RE-2Y(St)Y-fl-PIMF 70° C

CU/PE/ISCR/OSCR/PVC

Instrumentation Cables British Standard 300/500 V

Multi-pair, PE insulated, screened, PVC sheathed cable

Construction:

Conductor	: plain annealed copper wire, 0,50 mm² and 1,0 mm² solid, 0,50 mm² flexible or 1,5 mm² stranded.
Insulation	: PE compound.
Core ident.	: black / blue ; with numbered tape under separator tape of the pair screen.
Pair	: two conductors twisted to a pair.
PIMF constr.	: polyester tape above the pair, AL-PES tape over tinned copper drain wire, 0,50 mm².
Lay-up	: PIMF laid up in layers of optimum pitch.
Separator	: polyester tape.
Screen	: AL-PES tape over tinned copper drain wire 0,50 mm².
Outer sheath	: PVC compound, flame retardant.
Sheath colour	: RAL 9005, black.

Technical data and tests:

Rated voltage (U°/U)	: 300/500 V.
Test voltage	: Urms core-core : 1000 V; Urms core-screen : 1000 V.
Temperature range	: operation : - 40° C ~ + 70° C; installation : - 5° C ~ + 50° C.
Min. bending radius	: 6 x D.
Insulation resist. (20° C)	: min. 5000 MΩ/km.
Capacitance unbalanced	: (1 kHz) : max. 250 pF/250 m

Standards:

Design	: BS 5308 Part 1 Type 1.
Conductor	: BS 6360.
Insulation	: BS 6234 Type 03.
Outer sheath	: TM1, BS 7655.
Flame retardancy test	: IEC 60332-1 & BS EN 60332-1.

Technical data and tests:

Insulation thickness	: 0,50 mm² : 0,50 mm; 1,0 mm² : 0,60 mm; 0,50 mm² : 0,60 mm; 1,50 mm² : 0,60 mm.
Conductor class, BS 6360	: 0,50 mm² : Class 1; 1,0 mm² : Class 1; 0,50 mm² : Class 5; 1,5 mm² : Class 2.
Cond. resistance (20° C)	: 0,50 mm² : 36,8 Ω/km; 1,0 mm² : 18,4 Ω/km; 0,50 mm² : 39,7 Ω/km; 1,5 mm² : 12,3 Ω/km.
Mutual capacitance (1 kHz):	0,50 mm² : max. 115 pF/m; 1,0 mm² : max. 115 pF/m; 1,5 mm² : max. 120 pF/m.
L/R (ratio) (max)	: 0,50 mm² : 25 µH/Ω; 1,0 mm² : 25 µH/Ω; 1,5 mm² : 40 µH/Ω.

Applications:

These cables are used for transmission of analogue and digital signals in instrument and control systems at chemistry and petrochemistry industry plants, power plants, natural gas and petroleum plants, etc... . Instrumentation cables are not allowed for direct connection to a low impedance source, e.g. public mains electricity supply. 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.

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The above values correspond to the manufacturer's specifications and are not guaranteed.

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www.halleycables.com

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DIMENSIONS			
No. of cores x cross section mm²	Approx. outer diameter mm	Copper weight kg/km	Approx. cable weight kg/km
0,5 mm² (flexible)			
2x2x0,50	12,0	33	125
5x2x0,50	15,2	76	220
10x2x0,50	21,1	148	385
15x2x0,50	24,5	220	560
20x2x0,50	27,3	292	710
30x2x0,50	32,3	436	980
50x2x0,50	41,7	724	1675
0,75 mm² (flexible)			
2x2x0,75	12,8	48	140
5x2x0,75	16,3	112	260
10x2x0,75	22,7	220	470
15x2x0,75	26,4	328	675
20x2x0,75	29,8	436	880
30x2x0,75	35,5	652	1295
50x2x0,75	45,0	1084	2050
1,5 mm² (stranded)			
2x2x1,5	14,7	71	195
5x2x1,5	18,8	172	370
10x2x1,5	26,5	340	675
15x2x1,5	30,8	508	990
20x2x1,5	34,4	676	1255
30x2x1,5	41,0	1012	1850
50x2x1,5	52,5	1684	2990

IEC CE VDE RoHS PG TSE