RE-Y(St)Y-fl-MP 70° C

CU/PVC/OSCR/PVC

Instrumentation Cables British Standard 300/500 V

PVC insulated, collective screened, PVC sheathed cable

Construction:

Conductor	: plain annealed copper wire, 0,50 mm² and 0,75 mm² flexible, or 1,5 mm² stranded.
Insulation	: PVC compound, TI1.
Core identification	: according to BS 5308 Part 2 colour coded.
Pair	: two conductors twisted to a pair.
Lay-up	: pairs 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; TM1.
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.
Insulation resistance (20° C)	: min. 25 MΩ/km.
Mutual capacitance (1 kHz)	: max. 250 pF/m.
Capacitance unbalanced	: (1 kHz) : max. 450 pF/250 m.
Temperature range	: operation : - 40° C ~ + 70° C; installation : - 5° C ~ + 50° C.
Min. bending radius	: 6 x D.

Technical data and tests:

Insulation thickness	: 0,50 mm² : 0,60 mm; 0,75 mm² : 0,60 mm; 1,50 mm² : 0,60 mm.
Conductor class, BS 6360	: 0,50 mm² : Class 5; 0,75 mm² : Class 5; 1,5 mm² : Class 2.
Conductor resistance (20° C)	: 0,50 mm² : 39,7 Ω/km; 0,75 mm² : 26,5 Ω/km; 1,5 mm² : 12,3 Ω/km.
L/R (oran-ratio) (max)	: 0,50 mm² : 25 µH/Ω; 0,75 mm² : 25 µH/Ω; 1,5 mm² : 40 µH/Ω.

Standards:

Design	: BS 5308 Part 2 Type 1.
Conductor	: BS 6360.
Insulation	: BS 6746.
Outer sheath	: BS 7655.
Flame retardancy	: IEC 60332-1 & BS EN 60332-1.

Applications:

These cables are used for transmission of analogue and digital signals in instrumentation 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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HALLEY CABLES

www.halleycables.com

DIMENSIONS

No. of cores x cross section mm²	Approx. outer diameter mm	Copper weight kg/km	Approx. cable weight kg/km
0,50 mm² (flexible)			
1x2x0,50	7,0	14	45
2x2x0,50 quad	7,9	24	70
5x2x0,50	13,1	52	165
10x2x0,50	17,2	100	285
15x2x0,50	19,8	149	400
20x2x0,50	22,2	196	455
30x2x0,50	26,9	292	740
50x2x0,50	33,9	484	1180
0,75 mm² (flexible)			
1x2x0,75	7,3	19	50
2x2x0,75 quad	8,3	33	80
5x2x075	14,3	77	210
10x2x0,75	18,7	149	360
15x2x0,75	21,4	221	500
20x2x0,75	24,5	292	670
30x2x0,75	29,5	437	980
50x2x0,75	37,4	725	1560
1,5 mm² (stranded)			
1x2x1,5	8,3	33	80
2x2x1,5 quad	9,7	62	135
5x2x1,5	16,4	148	310
10x2x1,5	21,6	292	550
15x2x1,5	25,2	436	820
20x2x1,5	28,5	580	1030
30x2x1,5	34,3	868	1525
50x2x1,5	43,6	1444	2490

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IEC CE VDE RoHS PG TSE