



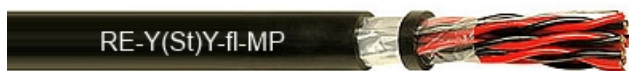
HALLEY CABLES

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^o/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.

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.

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.

www.halleycables.com

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RE-Y(St)Y-fl-MP 70° C ~ CU/PVC/OSCR/PVC**DIMENSIONS**

| No. of cores x cross section mm ² | Approx. outer diameter mm | Copper weight kg/km | Approx. cable weight kg/km |
|---|------------------------------|------------------------|-------------------------------|
| 0,50 mm ² (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 mm ² (flexible) | | | |
| 1x2x0,75 | 7,3 | 19 | 50 |
| 2x2x0,75 quad | 8,3 | 33 | 80 |
| 5x2x0,75 | 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 mm ² (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 |

