



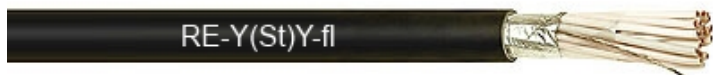
HALLEY CABLES

RE-Y(St)Y-fl 70° C

CU/PVC/OSCR/PVC

Instrumentation Cables British Standard 300/500 V

Multi-core, 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 : up to 40 cores; yellow with black numbers and word printed (1-40), (10,TEN); up to 80 cores; black with yellow numbers and word printed (1-40), (10,TEN).
- Lay-up : cores 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.
- Temperature range : operation : - 40° C ~ + 70° C;
installation : - 5° C ~ + 50° C.
- 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.
- Min. bending radius : 6 x D.

Standards:

- Design : BS 5308 Part 2 Type 1.
- Conductor : BS 6360.
- Insulation : BS 67461.
- 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 : 39,0 Ω/km;
0,75 mm² : 26,0 Ω/km;
1,5 mm² : 12,1 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

RE-Y(St)Y-fl 70° C ~ CU/PVC/OSCR/PVC



**HALLEY CABLES****RE-Y(St)Y-fl 70° C****CU/PVC/OSCR/PVC****Instrumentation Cables British Standard 300/500 V**

Multi-core, PVC insulated, collective screened, PVC sheathed cable

www.halleycables.com

DIMENSIONS

No. of cores x cross section mm ²	Approx. outer diameter mm	Copper weight kg/km	Approx. cable weight kg/km
2x0,50	7,0	14	50
2x0,75	7,3	18	60
2x1,5	8,3	33	90
3x0,50	7,3	18	60
3x0,75	7,7	26	70
3x1,5	8,9	47	105
4x0,50	7,9	23	70
4x0,75	8,3	33	80
4x1,5	9,7	62	135
6x0,50	9,3	33	100
6x0,75	9,9	47	120
6x1,5	11,7	90	190
10x0,50	11,9	52	155
10x0,75	12,7	76	195
10x1,5	14,7	148	300
20x0,50	14,9	100	265
20x0,75	16,0	148	340
20x1,5	18,7	292	540
40x0,50	20,1	196	480
40x0,75	21,7	292	625
40x1,5	24,6	580	1025
80x0,50	26,3	388	910
80x0,75	28,5	580	1180
80x1,5	33,6	1156	1950

RE-Y(St)Y-fl 70° C ~ CU/PVC/OSCR/PVC