RE-Y(St)YSWAY-fl 70° C

CU/PVC/OSCR/PVC/SWA/PVC

Instrumentation Cables British Standard 300/500 V

PVC insulated, collective screened, armoured, PVC sheathed cable

HALLEY CABLES

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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.
Bedding	: PVC compund, TM1, black.
Armour	: galvanized round steel wire, BS EN 10257-1.
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.
Temperature range	: operation : - 40° C ~ + 70° C; ınstallation : - 5° C ~ + 50° C.
Mutual capacitance (1 kHz)	: max. 250 pF/m.
Capacitance unbalanced	: (1 kHz) : max. 450 pF/250 m.
Insulation resistance (20° C)	: min. 25 MΩ/km.
Min. bending radius	: 6 x D.

Technical data and tests:

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

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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DIMENSIONS

No. of cores x cross section mm²	Approx. bedding diameter mm	Approx. outer diameter mm	Copper weight kg/km	Approx. cable weight kg/km
0,50 mm² (flexible)				
2x0,50	7,0	11,4	14	220
3x0,50	7,4	11,7	18	260
4x0,50	7,9	12,3	23	290
6x0,50	9,3	13,9	33	335
10x0,50	11,9	16,7	52	470
20x0,50	14,9	20,6	100	770
40x0,50	20,1	26,7	196	1310
80x0,50	26,3	33,3	388	2100
0,75 mm² (flexible)				
2x0,75	7,3	11,7	18	250
3x0,75	7,7	12,1	26	290
4x0,75	8,3	12,9	33	325
6x0,75	9,9	14,5	47	395
10x0,75	12,7	17,5	76	530
20x0,75	16,0	21,7	148	890
40x0,75	21,7	28,5	292	1540
80x0,75	28,5	35,7	580	2430
1.5 mm² (flexible)				
2x1,5	8,3	12,9	33	290
3x1,5	8,9	13,5	47	340
4x1,5	9,7	14,3	62	395
6x1,5	11,7	16,7	90	500
10x1,5	14,7	20,4	148	805
20x1,5	18,7	25,3	292	1340
40x1,5	24,6	31,6	580	2150
80x1,5	33,6	41,8	1156	3720

IEC CE VDE RoHS PG TSE

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

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