RE-2X(St)H MP 90° C

CU/XLPE/OSCR/LSZH

Instrumentation Cables British Standard 300/500 V

XLPE insulated, collective screened, LSZH sheathed cable

HALLEY CABLES

www.halleycables.com

Construction:

Conductor	: plain annealed copper wire, 0,50 mm² and 1,0 mm² flexible, 0,50 mm² and 0,75 mm² flexible or 1,5 mm² stranded.
Insulation	: XLPE compound, GP 8 (RE-2X…).
Core identification	: colour coded according to BS 5308 Part 1.
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	: LSZH compound, LST1; LSZH : Low Smoke Zero Halogen.
Sheath colour	: RAL 9005, black or RAL 5015, blue.

Technical data and tests:

Rated voltage (Uo/U)	: 300/500 V.
Test voltage	: Urms core-core : 1000 V; Urms core-screen : 1000 V.
Temperature range	: operation : - 40° C ~ + 90° C; installation : - 5° C ~ + 50° C.
Capacitance unbalanced	: (1 kHz) : max. 250 pF/250 m.
Insulation resistance	: min. 5000 MΩ/km.
Min. bending radius	: 6 x D.
L/R (ratio) (max)	: 0,50 mm² : 25 µH/Ω; 0,75 mm² : 25 µH/Ω; 1,0 mm² : 25 µH/Ω; 1,5 mm² : 40 µH/Ω.

Standards:

Design	: BS 5308 Part 1 Type 1.
Conductor	: BS 6360.
Insulation	: BS 6234 TYPE 03.
Outer sheath	: BS 7655.
Flame retardancy	: IEC 60332-1 & BS EN 60332-1. IEC 60332-3 & BS EN 50266-2-4.
Smoke density	: IEC 61034-2 & BS EN 61034-2.
Halogen-free	: IEC 60754-1/2 & BS EN 50267-2.

Technical data and tests:

Insulation thickness	: 0,50 mm² : 0,50 mm; 1,0 mm² : 0,60 mm; 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 1; 1,0 mm² : Class 1; 0,50 mm² : Class 5; 0,75 mm² : Class 5; 1,50 mm² : Class 2.
Conductor resistance	: 0,50 mm² : 36,8 Ω/km; 1,0 mm² : 18,4 Ω/km; 0,50 mm² : 39,7 Ω/km; 0,75 mm² : 26,5 Ω/km; 1,50 mm² : 12,3 Ω/km.

Mutual capacitance (1 kHz) :

	≤2 pairs	all other pairs
0,50 mm²	max. 115 pF/m,	max. 75 pF/m;
0,75 mm²	max. 115 pF/m,	max. 75 pF/m;
1,0 mm²	max. 115 pF/m,	max. 75 pF/m;
1,5 mm²	max. 120 pF/m,	max. 85 pF/m.

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. In case of fire, these cables inhibit the propagation of the flames and the development of smoke is extremely low. No corrosive gases are emitted in the event of fire. With blue sheath it is suitable for intrinsically safe systems. 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.

IEC CE VDE RoHS PG TSE

RE-2X(St)H MP 90° C ~ CU/XLPE/OSCR/LSZH

RE-2X(St)H MP 90° C

CU/XLPE/OSCR/LSZH

Instrumentation Cables British Standard 300/500 V

XLPE insulated, collective screened, LSZH sheathed cable

HALLEY CABLES

www.halleycables.com

RE-2X(St)H MP 90° C ~ CU/XLPE/OSCR/LSZH

DIMENSIONS

No. of cores x cross section mm²	Approx. outer diameter mm	Copper weight kg/km	Approx. cable weight kg/km
0,50 mm² (mono/solid)			
1x2x0,50	6,3	14	40
2x2x0,50 quads	7,1	24	60
5x2x0,50	11,6	52	130
10x2x0,50	15,0	100	220
15x2x0,50	17,1	149	310
20x2x0,50	19,4	196	395
30x2x0,50	23,0	292	570
50x2x0,50	28,9	484	925
0,50 mm² (flexible)			
1x2x0,50	7,0	14	50
2x2x0,50 quads	7,9	24	70
5x2x0,50	13,1	52	160
10x2x0,50	17,2	100	270
15x2x0,50	19,8	149	370
20x2x0,50	22,3	196	470
30x2x0,50	26,9	292	700
50x2x0,50	33,9	484	1115
0,75 mm² (flexible)			
1x2x0,75	7,3	19	55
2x2x0,75 quads	8,3	33	80
5x2x075	14,3	77	210
10x2x0,75	18,7	149	360
15x2x0,75	21,4	221	505
20x2x0,75	24,5	292	670
30x2x0,75	29,5	437	980
50x2x0,75	37,4	725	1540
1,0 mm² (mono/solid)			
1x2x1	7,4	24	60
2x2x1 quads	8,4	43	90
5x2x1	14,2	100	225
10x2x1	18,4	196	375
15x2x1	21,3	292	520
20x2x1	24,4	388	705
30x2x1	29,0	580	1020
50x2x1	37,3	964	1660
1,5 mm² (stranded)			
1x2x1,5	8,3	33	80
2x2x1,5 quads	9,7	62	135
5x2x1,5	16,4	148	310
10x2x1,5	21,6	292	555
15x2x1,5	25,2	436	800
20x2x1,5	28,5	580	1020
30x2x1,5	34,3	868	1490
50x2x1,5	43,6	1444	2380

IEC CE DVE RoHS PG TSE