RE-2X(St)H-PIMF 90° C

CU/XLPE/ISCR/OSCR/LSZH

Instrumentation Cables British Standard 300/500 V

XLPE insulated, individual & collective screened, LSZH sheathed cable

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	: black / blue ; with numbered tape under separator tape of the pair screen.
Pair	: two conductors twisted to a pair.
PIMF construction	: polyester tape above the pair, AL-PES tape over tinned copper drain wire, 0,50 mm².
Lay-up	: PIMF 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.

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.

Standards:

Design	: BS 5308 Part 1 Type 1.
Conductor	: BS 6360.
Insulation	: BS 7655.
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.

Applications:

These cables are used for the 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 to be directly connected 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.

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HALLEY CABLES

www.halleycables.com

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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)			
2x2x0,50	10,3	33	100
5x2x0,50	13,5	76	185
10x2x0,50	18,3	148	330
15x2x0,50	21,1	220	465
20x2x0,50	23,5	292	580
30x2x0,50	27,9	436	850
50x2x0,50	36,1	724	1405
0,50 mm² (flexible)			
2x2x0,50	12,0	33	115
5x2x0,50	15,2	76	215
10x2x0,50	21,1	148	370
15x2x0,50	24,5	220	540
20x2x0,50	27,3	292	655
30x2x0,50	32,3	436	950
50x2x0,50	41,7	724	1620
0,75 mm² (flexible)			
2x2x0,75	12,8	48	140
5x2x0,75	16,3	112	255
10x2x0,75	22,7	220	470
15x2x0,75	26,4	328	680
20x2x0,75	29,8	436	890
30x2x0,75	35,5	652	1305
50x2x0,75	45,0	1084	2075
1,0 mm² (mono/solid)			
2x2x1	12,8	52	145
5x2x1	16,2	125	260
10x2x1	22,3	245	475
15x2x1	26,2	365	720
20x2x1	29,8	485	1015
30x2x1	35,4	725	1375
50x2x1	44,9	1205	2210
1,5 mm² (stranded)			
2x2x1,5	14,7	71	190
5x2x1,5	18,8	172	360
10x2x1,5	26,5	340	670
15x2x1,5	30,8	508	965
20x2x1,5	34,4	676	1240
30x2x1,5	41,0	1012	1870
50x2x1,5	52,2	1684	2975

IEC CE RoHS