



HALLEY CABLES

RE-2X(St)Y-fl-TIMF CU/XLPE/ISCR/OSCR/PVC

Instrumentation Cables PVC DK-PE 300 V

Single & multi-triple, XLPE insulated, collective screened, PVC sheathed cable

RE-2X(St)-fl-TIMF

Construction:

- Conductor : plain copper wire, stranded.
- Insulation : XLPE compound, (RE-2X....).
- Core identification : black / white / red; with numbered tape under separator tape of the pair screen. Upon request: black / white / red cores numbered 1-1-1, 2-2-2,...
- Triple : three conductors twisted to a triple.
- TIMF construction : polyester tape above the pair, AL-PES tape over solid tinned copper drain wire, 0,60 mm. Upon request: stranded 0,50 mm² copper drain wire.
- Lay-up : TIMF 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, 90° C.
- Sheath colour : RAL 9005, black or RAL 5015, blue.

Technical data and tests:

- Rated voltage : 300 V.
- Test voltage : Urms core-core : 1500 V;
Urms core-screen : 1500 V.
- Temperature range : operation : - 30° C ~ + 90° C;
installation : - 5° C ~ + 50° C.
- Min. bending radius : 7.5 x D.
- Insulation resistance : min. 5000 MΩ/km.
- Capacitance unbalanced : (1 kHz) : max. 500 pF/500 m.

Standards:

- Design : DIN EN 50288-7.
- Conductor : IEC 60228 class 2, DIN EN 60228 class 2.
- Insulation : EN 50290-2-29.
- Outer sheath : EN 50290-2-22.
- Flame retardancy : IEC 60332-1 & 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. With blue sheath they are 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.

Technical data and tests:

- Insulation thickness : 0,50 mm² : 0,40 mm;
0,75 mm² : 0,40 mm;
1,0 mm² : 0,40 mm;
1,3 mm² : 0,45 mm;
1,5 mm² : 0,45 mm;
- Conductor resistance : 0,50 mm² : 36,7 Ω/km;
0,75 mm² : 25,0 Ω/km;
1,0 mm² : 18,5 Ω/km;
1,3 mm² : 14,2 Ω/km;
1,5 mm² : 12,3 Ω/km.
- L/R (ratio) (max) : 0,50 mm² : 25 μH/Ω;
0,75 mm² : 25 μH/Ω;
1,0 mm² : 25 μH/Ω;
1,3 mm² : 40 μH/Ω;
1,5 mm² : 40 μH/Ω.
- Mutual capacitance (1 kHz) : max. 120 pF/m.

www.halleycables.com

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DIMENSIONS

No. of cores x cross section mm ²	Approx. outer diameter mm	Copper weight kg/km	Approx. cable weight kg/km
2x3x0,50	10,9	43	100
2x3x0,75	11,9	58	125
2x3x1	12,8	72	145
2x3x1,3	14,5	89	180
2x3x1,5	15,0	101	195
4x3x0,50	12,4	82	160
4x3x0,75	13,7	110	200
4x3x1	14,9	139	240
4x3x1,3	16,8	174	300
4x3x1,5	17,4	197	325
5x3x0,50	13,1	101	185
5x3x0,75	14,5	137	240
5x3x1	15,7	173	285
5x3x1,3	17,8	216	355
5x3x1,5	18,4	245	390
6x3x0,50	14,3	120	220
6x3x0,75	15,6	163	275
6x3x1	17,1	206	335
6x3x1,3	19,4	258	425
6x3x1,5	20,0	292	465
8x3x0,50	16,0	158	280
8x3x0,75	17,8	216	360
8x3x1	19,5	274	440
8x3x1,3	22,1	343	550
8x3x1,5	22,8	389	605
10x3x0,50	17,8	197	345
10x3x0,75	19,7	267	440
10x3x1	21,7	341	540
10x3x1,3	24,5	427	675
10x3x1,5	25,3	485	745
12x3x0,50	19,4	235	410
12x3x0,75	21,5	322	525
12x3x1	23,4	408	635
12x3x1,3	26,5	512	795
12x3x1,5	27,6	581	885
16x3x0,50	22,1	312	530
16x3x0,75	24,5	427	680

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No. of cores x cross section mm ²	Approx. outer diameter mm	Copper weight kg/km	Approx. cable weight kg/km
16x3x1	26,9	542	840
16x3x1,3	30,4	681	1050
16x3x1,5	31,5	773	1155
20x3x0,50	24,5	389	650
20x3x0,75	27,2	533	840
20x3x1	29,8	677	1035
20x3x1,3	33,7	850	1290
20x3x1,5	34,9	965	1420
24x3x0,50	26,5	466	765
24x3x0,75	29,4	638	985
24x3x1	32,5	811	1230
24x3x1,3	36,7	1019	1535
24x3x1,5	38,3	1157	1710