



HALLEY CABLES

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

Instrumentation Cables PVC DK-PE 300 V

XLPE insulated, screened, armoured, PVC sheathed cable

RE-2X(St)YSWAY-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,... Other core configurations manufactured upon request.
- 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.
- Inner sheath : PVC compound, flame retardant.
- Armour : galvanized round steel wire.
- 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 : 10 x D.
- Insulation resistance : min. 5000 MΩ/km.

Standards:

- Design : DIN EN 50288-7.
- Conductor : IEC 60228 class 2, DIN EN 60228 class 2.
- Insulation : EN 50290-2-29.
- Armour : EN 10257-1.
- Inner/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.

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DIMENSIONS

No. of cores x cross section mm ²	Approx. bedding diameter mm	Approx. outer diameter mm	Copper weight kg/km	Approx. cable weight kg/km
2x3x0,50	10,7	15,3	43	355
2x3x0,75	11,7	16,5	58	405
2x3x1	12,6	17,4	72	450
2x3x1,3	14,1	18,9	89	510
2x3x1,5	14,6	19,6	101	545
4x3x0,50	12,2	17,0	82	450
4x3x0,75	13,3	18,1	110	515
4x3x1	14,5	19,5	139	585
4x3x1,3	16,2	21,9	174	785
4x3x1,5	16,8	22,5	197	830
5x3x0,50	12,9	17,7	101	495
5x3x0,75	14,1	18,9	137	570
5x3x1	15,3	21,0	173	755
5x3x1,3	17,2	23,1	216	880
5x3x1,5	17,8	23,7	245	935
6x3x0,50	13,9	18,7	120	545
6x3x0,75	15,2	20,2	163	640
6x3x1	16,5	22,2	206	835
6x3x1,3	18,6	24,5	258	980
6x3x1,5	19,2	25,1	292	1040
8x3x0,50	15,6	21,3	158	755
8x3x0,75	17,2	22,9	216	875
8x3x1	18,7	24,6	274	1000
8x3x1,3	21,1	27,2	343	1180
8x3x1,5	21,8	27,9	389	1255
10x3x0,50	17,2	23,1	197	870
10x3x0,75	18,9	24,6	267	995
10x3x1	20,7	26,8	341	1160
10x3x1,3	23,7	29,8	427	1390
10x3x1,5	24,5	31,5	485	1660
12x3x0,50	18,6	24,5	235	965
12x3x0,75	20,5	26,4	322	1125
12x3x1	22,4	28,5	408	1300
12x3x1,3	25,7	32,7	512	1750
12x3x1,5	26,6	33,6	581	1860
16x3x0,50	21,1	27,2	312	1160
16x3x0,75	23,3	29,4	427	1365

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16x3x1	25,9	32,9	542	1790
16x3x1,3	29,2	36,4	681	2120
16x3x1,5	30,3	37,5	773	2265
20x3x0,50	23,7	29,8	389	1370
20x3x0,75	26,2	33,2	533	1800
20x3x1	28,6	35,8	677	2085
20x3x1,3	32,7	40,1	850	2520
20x3x1,5	33,9	42,3	965	2970
24x3x0,50	25,7	32,7	466	1720
24x3x0,75	28,4	35,6	638	2040
24x3x1	31,1	38,5	811	2370
24x3x1,3	35,5	43,9	1019	3135
24x3x1,5	36,9	45,3	1157	3350

