



HALLEY CABLES

RE-2Y(St)H-TIMF

Instrumentation Cables HFFR 300 V

CU/PE/ISCR/OSCR/LSZH

PE insulated, individual & collective screened, HFFR sheathed cable



Construction:

- Conductor : plain copper wire, stranded.
- Insulation : PE compound, (RE-2Y...).
- Core identification : black / white / red; with numbered tape under separator tape of the pair screen. Upon request: black/blue/red cores numbered 1-1-1, 2-2-2.
- Triple : three conductors twisted to a triple.
- TIMF construction : polyester tape above the triple, 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 : HFFR compound.
- 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 ~ + 70° C;
installation : - 5° C ~ + 50° C.
- Min. bending radius: 7,5 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 50290-2-23.
- Outer sheath : EN 50290-2-27.
- Flame retardancy : IEC 60332-1 & DIN EN 60332-1,
IEC 60332-3 & DIN EN 50266-2-4.
- Halogen-free test : IEC 60754-1/2;
DIN EN 50267-2.
- Smoke density test : IEC 61034-2 & DIN EN 61034-2.

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.

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... These cables are used in the environments which must have no corrosive gases emitted in the event of fire. In case of fire, these cables inhibit the propagation of the flames whereby the development of smoke is extremely low. Instrumentation cables are not allowed for direct connection to a low impedance source, e.g. public mains electricity supply. 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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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	105
2x3x0,75	11,9	58	130
2x3x1	12,8	72	150
2x3x1,3	14,5	89	185
2x3x1,5	15,0	101	205
4x3x0,50	12,4	82	165
4x3x0,75	13,7	110	205
4x3x1	14,9	139	245
4x3x1,3	16,8	174	305
4x3x1,5	17,4	197	335
5x3x0,50	13,1	101	190
5x3x0,75	14,5	137	245
5x3x1	15,7	173	290
5x3x1,3	17,8	216	365
5x3x1,5	18,4	245	400
6x3x0,50	14,3	120	225
6x3x0,75	15,6	163	280
6x3x1	17,1	206	345
6x3x1,3	19,4	258	435
6x3x1,5	20,0	292	475
8x3x0,50	16,0	158	285
8x3x0,75	17,8	216	365
8x3x1	19,5	274	450
8x3x1,3	22,1	343	560
8x3x1,5	22,8	389	615
10x3x0,50	17,8	197	350
10x3x0,75	19,7	267	450
10x3x1	21,7	341	555
10x3x1,3	24,5	427	690
10x3x1,5	25,3	485	760
12x3x0,50	19,4	235	420
12x3x0,75	21,5	322	535
12x3x1	23,4	408	645
12x3x1,3	26,5	512	810
12x3x1,5	27,6	581	905
16x3x0,50	22,1	312	540
16x3x0,75	24,5	427	695
16x3x1	26,9	542	855
16x3x1,3	30,4	681	1065
16x3x1,5	31,5	773	1175
20x3x0,50	24,5	389	665
20x3x0,75	27,2	533	855
20x3x1	29,8	677	1050
20x3x1,3	33,7	850	1315
20x3x1,5	34,9	965	1445
24x3x0,50	26,5	466	780
24x3x0,75	29,4	638	1000
24x3x1	32,5	811	1250
24x3x1,3	36,7	1019	1560
24x3x1,5	38,3	1157	1735

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