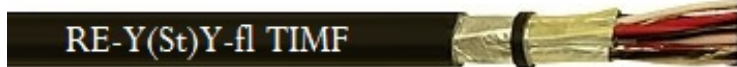




HALLEY CABLES

RE-Y(St)Y-fl TIMF CU/PVC/ISCR/OSCR/PVC/SWA/PVC Instrumentation Cables PVC DK PVC 300 V PVC insulated, individual & collective screened, PVC sheathed cable

www.halleycables.com



Construction:

- Conductor : plain copper wire, stranded.
- Insulation : PVC compound, 70° C.
- 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 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 stranded tinned copper drain wire 0,50 mm².
- Outer sheath : PVC compound, 70° 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 ~ + 70° C;
installation : - 5° C ~ + 50° C.
- Min. bending radius : 7.5 x D.
- Insulation resistance : min. 100 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 50290-2-21.
- 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 to be directly connected to a low impedance source, e.g. public mains electricity supply. Where endurance at 105° C is needed, RE-Yw(St)Yw-TIMF cables are suitable. 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.

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) : 0,50 mm² : max. 190 pF/m;
0,75 mm² : max. 190 pF/m;
1,0 mm² : max. 190 pF/m;
1,3 mm² : max. 200 pF/m;
1,5 mm² : max. 200 pF/m.



RE-Y(St)Y-fl TIMF ~ CU/PVC/ISCR/OSCR/PVC/SWA/PVC

RE-Y(St)Y-fl TIMF

CU/PVC/ISCR/OSCR/PVC/SWA/PVC

Instrumentation Cables PVC DK PVC 300 V

PVC insulated, individual & collective screened, PVC sheathed cable



HALLEY CABLES

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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	155
2x3x1,3	14,5	89	185
2x3x1,5	15,0	101	200
4x3x0,50	12,4	82	165
4x3x0,75	13,7	110	210
4x3x1	14,9	139	250
4x3x1,3	16,8	174	315
4x3x1,5	17,4	197	340
5x3x0,50	13,1	101	195
5x3x0,75	14,5	137	250
5x3x1	15,7	173	300
5x3x1,3	17,8	216	375
5x3x1,5	18,4	245	410
6x3x0,50	14,3	120	235
6x3x0,75	15,6	163	290
6x3x1	17,1	206	360
6x3x1,3	19,4	258	445
6x3x1,5	20,0	292	490
8x3x0,50	16,0	158	295
8x3x0,75	17,8	216	380
8x3x1	19,5	274	465
8x3x1,3	22,1	343	580
8x3x1,5	22,8	389	635
10x3x0,50	17,8	197	365
10x3x0,75	19,7	267	465
10x3x1	21,7	341	570
10x3x1,3	24,5	427	715
10x3x1,5	25,3	485	775
12x3x0,50	19,4	235	435
12x3x0,75	21,5	322	555
12x3x1	23,4	408	665
12x3x1,3	26,5	512	835
12x3x1,5	27,6	581	930
16x3x0,50	22,1	312	565
16x3x0,75	24,5	427	720

RE-Y(St)Y-fl TIMF ~ CU/PVC/ISCR/OSCR/PVC/SWA/PVC



DIMENSIONS

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	880
16x3x1,3	30,4	681	1105
16x3x1,5	31,5	773	1210
20x3x0,50	24,5	389	695
20x3x0,75	27,2	533	885
20x3x1	29,8	677	1085
20x3x1,3	33,7	850	1360
20x3x1,5	34,9	965	1500
24x3x0,50	26,5	466	810
24x3x0,75	29,4	638	1040
24x3x1	32,5	811	1295
24x3x1,3	36,7	1019	1620
24x3x1,5	38,3	1157	1795