



HALLEY CABLES

RE-Y(St)Y-fl TIMF 70° C

CU/PVC/ISCR/OSCR/PVC

Instrumentation Cables PVC DK PVC 500 V

PVC insulated, screened, PVC sheathed cable

RE-Y(St)Y-fl-TIMF

Construction:

Conductor	: plain copper wire, stranded.
Insulation	: PVC compound, 70° C.
Core identification	: black / blue / red, with numbered tape under separator tape of the pair screen. Upon request: black / blue / 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 mm ² 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 mm ² .
Outer sheath	: PVC compound, 70° C.
Sheath colour	: RAL 9005, black or RAL 5015, blue.

Technical data and tests:

Rated voltage	: 500 V.
Test Voltage	: Urms core-core : 2000 V; Urms core-screen: 2000 V.
Temperature range	: operation : - 30° C ~ + 70° C; installation : - 5° C ~ + 50° C.
Min. bending radius	: 7,5 x D.
Capacitance unbalance	: (1 kHz) : max. 500 pF/500 m.
Insulation resistance (20° C)	: min. 100 MΩ/km.

Standards:

Design	: DIN EN 50288-7.
Insulation	: EN 50290-2-21.
Conductor	: IEC 60228 class 2, DIN EN 60228 class 2.
Flame retardance test	: IEC 60332-1 & EN 60332-1.
Outer sheath	: EN 50290-2-22.

Technical data and tests:

Conductor resistance (20° C)	0,50 mm ² : 36,7 Ω/km;	0,75 mm ² : 25,0 Ω/km;
	1,0 mm ² : 18,5 Ω/km;	1,3 mm ² : 14,2 Ω/km;
	1,5 mm ² : 12,3 Ω/km.	
Mutual Capacitance (1kHz)	: ≤ 4 pairs	all other pairs
	0,50 mm ² : max. 160 pF/m	max. 160 pF/m;
	0,75 mm ² : max. 160 pF/m	max. 160 pF/m;
	1,0 mm ² : max. 160 pF/m	max. 160 pF/m;
	1,3 mm ² : max. 170 pF/m	max. 170 pF/m;
	1,5 mm ² : max. 170 pF/m	max. 170 pF/m.
L / R (ratio) (max.)	: 0,50 mm ² : 25 μH/Ω;	
	0,75 mm ² : 25 μH/Ω;	
	1,0 mm ² : 25 μH/Ω;	
	1,30 mm ² : 40 μH/Ω;	
	1,5 mm ² : 40 μH/Ω.	

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. 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.





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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	12,4	43	120
2x3x0,75	13,5	58	150
2x3x1	14,5	72	170
2x3x1,3	15,7	89	200
2x3x1,5	16,7	101	225
4x3x0,50	14,3	82	195
4x3x0,75	15,5	110	235
4x3x1	16,8	139	285
4x3x1,3	18,2	174	340
4x3x1,5	19,3	197	380
5x3x0,50	15,1	101	230
5x3x0,75	16,5	137	285
5x3x1	17,8	173	340
5x3x1,3	19,5	216	410
5x3x1,5	20,4	245	452
6x3x0,50	16,5	120	275
6x3x0,75	17,8	163	330
6x3x1	19,4	206	400
6x3x1,3	21,1	258	480
6x3x1,5	22,3	292	540
8x3x0,50	18,6	158	345
8x3x0,75	20,3	216	430
8x3x1	22,1	274	520
8x3x1,3	24,0	343	625
8x3x1,5	25,4	389	700
10x3x0,50	20,6	197	425
10x3x0,75	22,5	267	530
10x3x1	24,5	341	640
10x3x1,3	26,6	427	770
10x3x1,5	28,1	485	865
12x3x0,50	22,5	235	505
12x3x0,75	24,6	322	630
12x3x1	26,5	408	750
12x3x1,3	29,0	512	915
12x3x1,5	30,7	581	1025
16x3x0,50	25,6	312	655
16x3x0,75	28,0	427	820





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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
16x3x1	30,4	542	990
16x3x1,3	33,4	681	1210
16x3x1,5	35,2	773	1355
20x3x0,50	28,4	389	805
20x3x0,75	31,1	533	1010
20x3x1	33,7	677	1220
20x3x1,3	37,0	850	1490
20x3x1,5	39,0	965	1665
24x3x0,50	30,9	466	955
24x3x0,75	33,8	638	1200
24x3x1	36,7	811	1450
24x3x1,3	40,3	1019	1765
24x3x1,5	42,5	1157	1980

