RE-Y(St)YSWAY-fl TIMF

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

Instrumentation Cables PVC DK PVC 300 V

PVC insulated, screened, armoured, PVC sheathed cable

HALLEY CABLES

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.
Inner sheath	: PVC compound, 70° C.
Armour	: galvanized round steel wire.
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	: 10 x D.
Insulation resistance	: min. 100 MΩ/km.

Standards:

Design	: DIN EN 50288-7.
Conductor	: IEC 60228 class 2, DIN EN 60228 class 2.
Insulation	: EN 50290-2-21.
Inner/outer sheath	: EN 50290-2-22.
Armour	: EN 10257-1.
Flame retardancy	: IEC 60332-1 & EN 60332-1.

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.

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. The armour above the inner sheath protects the cable from mechanical shocks. 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.

IEC CE VDE RoHS PG TSE

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www.halleycables.com

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DIMENSIONS

No. of cores x cross section mm²	Approx. bedding diameter mm	Approx. outer diameter mm	Copper weight kg/km	Approx. cable weight kg/km
2x3x0,50	10,7	15,3	43	365
2x3x0,75	11,7	16,5	58	415
2x3x1	12,6	17,4	72	460
2x3x1,3	14,1	18,9	89	520
2x3x1,5	14,6	19,6	101	555
4x3x0,50	12,2	17,0	82	465
4x3x0,75	13,3	18,1	110	530
4x3x1	14,5	19,5	139	600
4x3x1,3	16,2	21,9	174	805
4x3x1,5	16,8	22,5	197	850
5x3x0,50	12,9	17,7	101	510
5x3x0,75	14,1	18,9	137	585
5x3x1	15,3	21,0	173	770
5x3x1,3	17,2	23,1	216	900
5x3x1,5	17,8	23,7	245	955
6x3x0,50	13,9	18,7	120	560
6x3x0,75	15,2	20,2	163	655
6x3x1	16,5	22,2	206	855
6x3x1,3	18,6	24,5	258	1005
6x3x1,5	19,2	25,1	292	1065
8x3x0,50	15,6	21,3	158	775
8x3x0,75	17,2	22,9	216	895
8x3x1	18,7	24,6	274	1030
8x3x1,3	21,1	27,2	343	1215
8x3x1,5	21,8	27,9	389	1290
10x3x0,50	17,2	23,1	197	895
10x3x0,75	18,9	24,6	267	1025
10x3x1	20,7	26,8	341	1190
10x3x1,3	23,7	29,8	427	1430
10x3x1,5	24,5	31,5	485	1700
12x3x0,50	18,6	24,5	235	995
12x3x0,75	20,5	26,4	322	1160
12x3x1	22,4	28,5	408	1340
12x3x1,3	25,7	32,7	512	1795
12x3x1,5	26,6	33,6	581	1910
16x3x0,50	21,1	27,2	312	1200
16x3x0,75	23,3	29,4	427	1405
16x3x1	25,9	32,9	542	1840
16x3x1,3	29,2	36,4	681	2180
16x3x1,5	30,3	37,5	773	2325
20x3x0,50	23,7	29,8	389	1415
20x3x0,75	26,2	33,2	533	1855
20x3x1	28,6	35,8	677	2145
20x3x1,3	32,7	40,1	850	2595
20x3x1,5	33,9	42,3	965	3045
24x3x0,50	25,7	32,7	466	1775
24x3x0,75	28,4	35,6	638	2100
24x3x1	31,1	38,5	811	2440
24x3x1,3	35,5	43,9	1019	3225
24x3x1,5	36,9	45,3	1157	3440

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