RE-Yw(St)YwSWAYw-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, 105° 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, 105° C.
Armour	: galvanized round steel wire.
Outer sheath	: PVC compound, 105° 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 ~ + 105° 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. 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	340
2x3x0,75	11,7	16,5	58	395
2x3x1	12,6	17,4	72	440
2x3x1,3	14,1	18,9	89	500
2x3x1,5	14,6	19,6	101	535
4x3x0,50	12,2	17,0	82	445
4x3x0,75	13,3	18,1	110	505
4x3x1	14,5	19,5	139	580
4x3x1,3	16,2	21,9	174	780
4x3x1,5	16,8	22,5	197	825
5x3x0,50	12,9	17,7	101	480
5x3x0,75	14,1	18,9	137	560
5x3x1	15,3	21,0	173	745
5x3x1,3	17,2	23,1	216	880
5x3x1,5	17,8	23,7	245	930
6x3x0,50	13,9	18,7	120	535
6x3x0,75	15,2	20,2	163	630
6x3x1	16,5	22,2	206	825
6x3x1,3	18,6	24,5	258	975
6x3x1,5	19,2	25,1	292	1035
8x3x0,50	15,6	21,3	158	750
8x3x0,75	17,2	22,9	216	865
8x3x1	18,7	24,6	274	1000
8x3x1,3	21,1	27,2	343	1185
8x3x1,5	21,8	27,9	389	1255
10x3x0,50	17,2	23,1	197	865
10x3x0,75	18,9	24,6	267	995
10x3x1	20,7	26,8	341	1160
10x3x1,3	23,7	29,8	427	1400
10x3x1,5	24,5	31,5	485	1665
12x3x0,50	18,6	24,5	235	960
12x3x0,75	20,5	26,4	322	1125
12x3x1	22,4	28,5	408	1300
12x3x1,3	25,7	32,7	512	1755
12x3x1,5	26,6	33,6	581	1870
16x3x0,50	21,1	27,2	312	1160
16x3x0,75	23,3	29,4	427	1370
16x3x1	25,9	32,9	542	1795
16x3x1,3	29,2	36,4	681	2135
16x3x1,5	30,3	37,5	773	2285
20x3x0,50	23,7	29,8	389	1370
20x3x0,75	26,2	33,2	533	1805
20x3x1	28,6	35,8	677	2095
20x3x1,3	32,7	40,1	850	2545
20x3x1,5	33,9	42,3	965	2990
24x3x0,50	25,7	32,7	466	1725
24x3x0,75	28,4	35,6	638	2050
24x3x1	31,1	38,5	811	2385
24x3x1,3	35,5	43,9	1019	3160
24x3x1,5	36,9	45,3	1157	3380