



HALLEY CABLES

RE-Yw(St)Yw-fl TIMF

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

Instrumentation Cables PVC DK PVC 300 V

PVC insulated, individual & collective screened, PVC sheathed cable

RE-Yw(St)Yw-fl TIMF



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.
- 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 : 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. 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.

www.halleycables.com

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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	100
2x3x0,75	11,9	58	125
2x3x1	12,8	72	150
2x3x1,3	14,5	89	180
2x3x1,5	15,0	101	195
4x3x0,50	12,4	82	160
4x3x0,75	13,7	110	200
4x3x1	14,9	139	240
4x3x1,3	16,8	174	305
4x3x1,5	17,4	197	330
5x3x0,50	13,1	101	175
5x3x0,75	14,5	137	240
5x3x1	15,7	173	290
5x3x1,3	17,8	216	360
5x3x1,5	18,4	245	400
6x3x0,50	14,3	120	215
6x3x0,75	15,6	163	280
6x3x1	17,1	206	345
6x3x1,3	19,4	258	430
6x3x1,5	20,0	292	475
8x3x0,50	16,0	158	275
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	550
10x3x1,3	24,5	427	690
10x3x1,5	25,3	485	750
12x3x0,50	19,4	235	420
12x3x0,75	21,5	322	540
12x3x1	23,4	408	645
12x3x1,3	26,5	512	810
12x3x1,5	27,6	581	905
16x3x0,50	22,1	312	545
16x3x0,75	24,5	427	700



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	855
16x3x1,3	30,4	681	1080
16x3x1,5	31,5	773	1185
20x3x0,50	24,5	389	670
20x3x0,75	27,2	533	860
20x3x1	29,8	677	1055
20x3x1,3	33,7	850	1330
20x3x1,5	34,9	965	1465
24x3x0,50	26,5	466	785
24x3x0,75	29,4	638	1010
24x3x1	32,5	811	1255
24x3x1,3	36,7	1019	1575
24x3x1,5	38,3	1157	1755