RE-Y(St)Y-fl PIMF

CU/PVC/ISCR/OSCR/PVC

Instrumentation Cables PVC DK PVC 300 V

PVC insulated, individual & collective screened, PVC sheathed cable

HALLEY CABLES

Construction:

Conductor	: plain copper wire, stranded.
Insulation	: PVC compound, 70° C.
Core identification	: black / white, with numbered tape under separator tape of the pair screen. Upon request: black / blue cores numbered 1-1, 2-2,… Other core configurations manufactured upon request.
Pair	: two conductors twisted to a pair.
PIMF construction	: polyester tape above the pair, AL-PES tape over solid tinned copper drain wire, 0,60 mm. Upon request: stranded 0,50 mm² copper drain wire.
Lay-up	: PIMF 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.

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-PIMF 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.

IEC CE VDE RoHS PG TSE

www.halleycables.com

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DIMENSIONS

No. of cores x cross section mm²	Approx. outer diameter mm	Copper weight kg/km	Approx. cable weight kg/km
2x2x0,50	9,1	34	85
2x2x0,75	9,9	43	100
2x2x1	10,9	53	120
2x2x1,3	12,1	64	140
2x2x1,5	12,4	72	160
4x2x0,50	10,5	62	125
4x2x0,75	11,6	82	155
4x2x1	12,6	101	185
4x2x1,3	14,2	123	225
4x2x1,5	14,7	139	250
5x2x0,50	11,4	77	150
5x2x0,75	12,4	101	185
5x2x1	13,6	125	225
5x2x1,3	15,2	153	275
5x2x1,5	15,7	173	300
6x2x0,50	12,2	91	175
6x2x0,75	13,6	120	220
6x2x1	14,7	149	265
6x2x1,3	16,6	183	320
6x2x1,5	17,1	206	365
8x2x0,50	13,9	120	225
8x2x0,75	15,2	158	280
8x2x1	16,7	197	335
8x2x1,3	18,7	242	410
8x2x1,5	19,5	274	460
10x2x0,50	15,2	149	270
10x2x0,75	16,9	197	345
10x2x1	18,3	245	415
10x2x1,3	20,7	302	510
10x2x1,5	21,7	341	570
12x2x0,50	16,6	178	325
12x2x0,75	18,2	235	400
12x2x1	20,0	293	485
12x2x1,3	22,6	361	605
12x2x1,5	23,4	408	660
16x2x0,50	18,7	235	410
16x2x0,75	20,8	312	520

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DIMENSIONS

No. of cores x cross section mm²	Approx. outer diameter mm	Copper weight kg/km	Approx. cable weight kg/km
16x2x1	22,8	389	630
16x2x1,3	25,8	480	785
16x2x1,5	26,7	542	865
20x2x0,50	20,8	293	510
20x2x0,75	23,0	389	640
20x2x1	25,3	485	780
20x2x1,3	28,6	600	965
20x2x1,5	29,8	677	1075
24x2x0,50	22,6	350	605
24x2x0,75	25,1	466	760
24x2x1	27,6	581	925
24x2x1,3	31,2	719	1150
24x2x1,5	32,5	811	1275