RE-Y(St)Y-fl-PIMF 70° C

CU/PVC/ISCR/OSCR/PVC

Instrumentation Cables PVC DK PVC 500 V

Multi-pair, PVC insulated, screened, PVC sheathed cable

Construction:

Conductor	: plain copper wire, stranded.
Insulation	: PVC compound, 70° C.
Core identification	: black / blue, 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	: 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.
Insulation resistance	: min. 100 MΩ/km.
Capacitance unbalance	: (1 kHz) : max. 500 pF/500 m.

Technical data and tests:

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.
Mutual Capacitance	: 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.
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;

Standards:

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

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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	10,3	34	90
2x2x0,75	11,3	43	110
2x2x1	12,1	53	125
2x2x1,3	13,0	64	145
2x2x1,5	13,8	72	165
4x2x0,50	12,1	62	145
4x2x0,75	13,1	82	175
4x2x1	14,2	101	210
4x2x1,3	15,4	123	245
4x2x1,5	16,1	139	265
5x2x0,50	12,9	77	170
5x2x0,75	14,2	101	210
5x2x1	15,2	125	245
5x2x1,3	16,7	153	300
5x2x1,5	17,5	173	325
6x2x0,50	14,1	91	205
6x2x0,75	15,2	120	245
6x2x1	16,6	149	295
6x2x1,3	18,0	183	345
6x2x1,5	19,0	206	390
8x2x0,50	15,9	120	255
8x2x0,75	17,4	158	315
8x2x1	18,7	197	370
8x2x1,3	20,5	242	450
8x2x1,5	21,7	274	505
10x2x0,50	17,6	149	315
10x2x0,75	19,3	197	390
10x2x1	20,7	245	455
10x2x1,3	22,8	302	555
10x2x1,5	23,9	341	610
12x2x0,50	19,2	178	375
12x2x0,75	20,8	235	455
12x2x1	22,6	293	545
12x2x1,3	24,8	361	660
12x2x1,5	26,0	408	725
16x2x0,50	21,9	235	485
16x2x0,75	23,7	312	590

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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	25,8	389	710
16x2x1,3	28,3	480	855
16x2x1,5	29,9	542	960
20x2x0,50	24,1	293	585
20x2x0,75	26,3	389	725
20x2x1	28,6	485	870
20x2x1,3	31,4	600	1055
20x2x1,5	33,1	677	1180
24x2x0,50	26,2	350	700
24x2x0,75	28,7	466	865
24x2x1	31,2	581	1035
24x2x1,3	34,2	719	1255
24x2x1,5	36,1	811	1400

IEC CE RoHS