RE-2Y(St)Y-fl MP 70° C

CU/PE/OSCR/PVC

Instrumentation Cables PVC DK-PE 300 V

PE insulated, collective screened, PVC sheathed cable

HALLEY CABLES

Construction:

Conductor	: plain copper wire, stranded.
Insulation	: PE compound, (RE-2Y….).
Core identification	: black / white cores numbered 1-1, 2-2,… Upon request: colour coded according to IEC 60189-2.
Pair	: two conductors twisted to a pair.
Lay-up	: pairs laid up in layers of optimum pitch.
Separator	: polyester tape.
Screen	: AL-PES tape over tinned copper drain wire 0,50 mm².
Outer sheath	: PVC compound, flame retardant.
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. 5000 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 50290-2-23.
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) :

	≤ 4 pairs	all other pairs
0,50 mm²	max. 115 pF/m,	max. 90 pF/m;
0,75 mm²	max. 115 pF/m,	max. 90 pF/m;
1,0 mm²	max. 115 pF/m,	max. 90 pF/m;
1,3 mm²	max. 120 pF/m,	max. 105 pF/m;
1,5 mm²	max. 120 pF/m,	max. 105 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 for direct connection to a low impedance source, e.g. public mains electricity supply. With blue sheath they are 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
1x2x0,50	5,4	14	35
1x2x0,75	6,0	19	45
1x2x1	6,4	24	50
1x2x1,3	7,0	30	60
1x2x1,5	7,2	34	65
2x2x0,50	7,9	24	60
2x2x0,75	8,8	34	75
2x2x1	9,5	43	90
2x2x1,3	10,5	55	105
2x2x1,5	10,8	62	110
4x2x0,50	9,4	43	95
4x2x0,75	10,2	62	120
4x2x1	11,1	82	145
4x2x1,3	12,5	105	185
4x2x1,5	12,9	120	200
5x2x0,50	9,9	53	110
5x2x0,75	10,9	77	145
5x2x1	11,8	101	175
5x2x1,3	13,1	130	215
5x2x1,5	13,6	149	240
6x2x0,50	10,6	62	125
6x2x0,75	11,7	91	170
6x2x1	12,7	120	205
6x2x1,3	14,3	155	260
6x2x1,5	14,8	178	285
8x2x0,50	12,0	82	165
8x2x0,75	13,1	120	210
8x2x1	14,4	158	265
8x2x1,3	16,1	204	330
8x2x1,5	16,9	235	375
10x2x0,50	13,1	101	195
10x2x0,75	14,6	149	260
10x2x1	15,8	197	320
10x2x1,3	17,9	254	405
10x2x1,5	18,5	293	450
12x2x0,50	14,3	120	230

IEC CE VDE RoHS

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The above values correspond to the manufacturer's specifications and are not guaranteed.

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Created by HALLEY CABLES SRL August 2012.

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Instrumentation Cables PVC DK-PE 300 V

PE insulated, collective screened, PVC sheathed cable

HALLEY CABLES

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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
12x2x0,75	15,7	178	300
12x2x1	17,3	235	380
12x2x1,3	19,5	304	485
12x2x1,5	20,2	350	540
16x2x0,50	16,1	158	295
16x2x0,75	17,9	235	395
16x2x1	19,7	312	495
16x2x1,3	22,2	404	635
16x2x1,5	23,0	466	705
20x2x0,50	17,9	197	360
20x2x0,75	19,9	293	485
20x2x1	21,6	389	605
20x2x1,3	24,4	504	770
20x2x1,5	25,5	581	870
24x2x0,50	19,3	235	420
24x2x0,75	21,4	350	565
24x2x1	23,6	466	720
24x2x1,3	26,6	604	920
24x2x1,5	27,8	696	1035

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