RE-2YCY-fl-PIMF 70° C

CU/PE/ISCR/OSCR/PVC

Instrumentation Cables PVC DK-PE 300 V

PE insulated, screened, PVC sheathed cable

Construction:

Conductor	: plain copper wire, stranded.
Insulation	: PE compound.
Core identification	: black / white ; with numbered tape under separator tape of the pair screen. Upon request: black / white 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	: braid of tinned Cu wires, 85% coverage.
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.

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)	: max. 120 pF/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.

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 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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HALLEY CABLES

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	9,5	65	110
2x2x0,75	10,3	78	130
2x2x1	11,3	91	150
2x2x1,3	12,5	107	175
2x2x1,5	12,8	116	190
4x2x0,50	10,9	109	165
4x2x0,75	12,0	132	205
4x2x1	13,0	155	235
4x2x1,3	14,6	184	280
4x2x1,5	15,1	201	300
5x2x0,50	11,8	131	200
5x2x0,75	12,8	160	240
5x2x1	14,0	188	280
5x2x1,3	15,6	223	330
5x2x1,5	16,1	244	355
6x2x0,50	12,6	154	230
6x2x0,75	14,0	187	280
6x2x1	15,1	221	320
6x2x1,3	17,0	262	390
6x2x1,5	17,5	287	420
8x2x0,50	14,3	198	295
8x2x0,75	15,6	242	350
8x2x1	17,1	286	415
8x2x1,3	19,5	371	525
8x2x1,5	20,3	406	575
10x2x0,50	15,6	242	355
10x2x0,75	17,3	296	430
10x2x1	18,7	350	495
10x2x1,3	21,5	451	635
10x2x1,5	22,5	494	695
12x2x0,50	17,0	285	415
12x2x0,75	18,6	349	495
12x2x1	20,8	447	620
12x2x1,3	23,4	531	745
12x2x1,5	24,2	582	805
16x2x0,50	19,5	402	560
16x2x0,75	21,6	490	680

IEC CE RoHS

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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	23,6	578	795
16x2x1,3	26,6	687	955
16x2x1,5	27,5	754	1035
20x2x0,50	21,6	490	685
20x2x0,75	23,8	599	825
20x2x1	26,1	707	970
20x2x1,3	29,4	841	1165
20x2x1,5	30,6	924	1275
24x2x0,50	23,4	577	805
24x2x0,75	25,9	706	970
24x2x1	28,4	835	1140
24x2x1,3	32,4	1048	1430
24x2x1,5	33,7	1149	1560