



HALLEY CABLES

RE-2YCY-fl 70° C

CU/PE/OSCR/PVC

Instrumentation Cables PVC DK-PE 300 V

PE insulated, collective screened, PVC sheathed cable

RE-2YCY-fl



Construction:

Conductor	: plain copper wire, stranded.
Insulation	: PE compound.
Core identification	: black / white cores numbered 1-1, 2-2,... Upon request: Colour coded according to IEC 60189-2. Other core configurations manufactured upon request.
Pair	: two conductors twisted to a pair.
Lay-up	: pairs 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.

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.

Technical data and tests:

Insulation thickness	: 0,50 mm ² : 0,40 mm;
	0,75 mm ² : 0,40 mm;
	1,0 mm ² : 0,40 mm;
	1,3 mm ² : 0,45 mm;
	1,5 mm ² : 0,45 mm;
Conductor resistance	: 0,50 mm ² : 36,7 Ω/km;
	0,75 mm ² : 25,0 Ω/km;
	1,0 mm ² : 18,5 Ω/km;
	1,3 mm ² : 14,2 Ω/km;
	1,5 mm ² : 12,3 Ω/km.
L/R (ratio) (max)	: 0,50 mm ² : 25 μH/Ω;
	0,75 mm ² : 25 μH/Ω;
	1,0 mm ² : 25 μH/Ω;
	1,3 mm ² : 40 μH/Ω;
	1,5 mm ² : 40 μH/Ω.
Mutual capacitance (1 kHz)	: ≤ 4 pairs all other pairs
	0,50 mm ² : max. 115 pF/m, max. 90 pF/m;
	0,75 mm ² : max. 115 pF/m, max. 90 pF/m;
	1,0 mm ² : max. 115 pF/m, max. 90 pF/m;
	1,3 mm ² : max. 120 pF/m, max. 105 pF/m;
1,5 mm ² : max. 120 pF/m, max. 105 pF/m.	

www.halleycables.com

RE-2YCY-fl 70° C ~ CU/PE/OSCR/PVC





DIMENSIONS

No. of cores x cross section mm ²	Approx. outer diameter mm	Copper weight kg/km	Approx. cable weight kg/km
1x2x0,50	5,6	20	40
1x2x0,75	6,2	26	55
1x2x1	6,6	32	60
1x2x1,3	7,2	39	70
1x2x1,5	7,4	44	80
2x2x0,50	8,1	37	75
2x2x0,75	9,2	55	100
2x2x1	9,9	67	115
2x2x1,3	10,9	83	140
2x2x1,5	11,2	92	150
4x2x0,50	9,8	67	120
4x2x0,75	10,6	89	150
4x2x1	11,5	112	180
4x2x1,3	12,9	140	220
4x2x1,5	13,3	157	240
5x2x0,50	10,3	78	140
5x2x0,75	11,3	106	180
5x2x1	12,2	133	210
5x2x1,3	13,5	167	260
5x2x1,5	14,0	188	280
6x2x0,50	11,0	90	155
6x2x0,75	12,1	123	200
6x2x1	13,1	156	240
6x2x1,3	14,7	196	305
6x2x1,5	15,2	221	330
8x2x0,50	12,4	115	200
8x2x0,75	13,5	158	250
8x2x1	14,8	200	310
8x2x1,3	16,5	253	380
8x2x1,5	17,3	286	425
10x2x0,50	13,5	138	235
10x2x0,75	15,0	191	305
10x2x1	16,2	244	370
10x2x1,3	18,3	310	465
10x2x1,5	18,9	350	515
12x2x0,50	14,7	162	275
12x2x0,75	16,1	225	350

**DIMENSIONS**

No. of cores x cross section mm ²	Approx. outer diameter mm	Copper weight kg/km	Approx. cable weight kg/km
12x2x1	17,7	288	435
12x2x1,3	20,3	398	585
12x2x1,5	21,0	448	640
16x2x0,50	16,5	207	345
16x2x0,75	18,3	290	450
16x2x1	20,5	407	595
16x2x1,3	23,0	513	750
16x2x1,5	23,8	579	825
20x2x0,50	18,3	252	420
20x2x0,75	20,7	389	580
20x2x1	22,4	495	715
20x2x1,3	25,2	626	900
20x2x1,5	26,3	708	1005
24x2x0,50	20,1	329	520
24x2x0,75	22,2	456	680
24x2x1	24,4	583	840
24x2x1,3	27,4	738	1060
24x2x1,5	28,6	836	1180