



HALLEY CABLES

RE-2Y(St)YQY-fl-PIMF 70° C

CU/PE/PSCR/OSCR/PVC/GSWB/PVC

Instrumentation Cables PVC DK PE 300 V

PE insulated, screened, steel wire braided, PVC sheathed cable

RE-2Y(St)YQY-fl-PIMF

Construction:

Conductor	: plain copper wire.
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 mm ² 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 mm ² .
Inner sheath	: PVC compound.
Armour	: braid of galvanized steel wires, approx. 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	: 10 x D.
Insulation resistance	: min. 5000 MΩ/km.
Mutual capacitance	: max. 120 pF/m.

Standards:

Design	: DIN EN 50288-7.
Conductors	: IEC 60228 class 2, DIN EN 60228 class 2.
Insulation	: EN 50290-2-23.
Inner sheath	: EN 50290-2-22.
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 instrument 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. The armour above the sheath, steel wire braid serves as protection against mechanical traverse loads and act as a magnetic screen against interference. The galvanised steel wires are free of corrosion and oxidation. They are for indoor and outdoor installation, in dry and wet locations; on racks, trays, in conduits.

Technical data and tests:

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.
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.



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DIMENSIONS

No. of cores x cross section mm ²	Approx. outer diameter mm	Copper weight kg/km	Approx. cable weight kg/km
2x2x0,50	13,1	34	200
2x2x0,75	13,9	43	225
2x2x1	14,7	53	250
2x2x1,3	16,1	64	290
2x2x1,5	16,4	72	305
4x2x0,50	14,5	62	260
4x2x0,75	15,6	82	300
4x2x1	16,6	101	340
4x2x1,3	18,0	123	390
4x2x1,5	18,5	139	415
5x2x0,50	15,4	77	295
5x2x0,75	16,4	101	340
5x2x1	17,4	125	380
5x2x1,3	19,2	153	450
5x2x1,5	19,7	173	480
6x2x0,50	16,2	91	325
6x2x0,75	17,4	120	375
6x2x1	18,7	149	435
6x2x1,3	20,4	183	505
6x2x1,5	20,9	206	540
8x2x0,50	17,7	120	385
8x2x0,75	19,2	158	460
8x2x1	20,5	197	525
8x2x1,3	22,7	242	625
8x2x1,5	23,3	274	670
10x2x0,50	19,2	149	450
10x2x0,75	20,7	197	530
10x2x1	22,3	245	620
10x2x1,3	24,5	302	725
10x2x1,5	25,5	341	790
12x2x0,50	20,4	178	505
12x2x0,75	22,2	235	605
12x2x1	23,8	293	700
12x2x1,3	26,8	361	880
12x2x1,5	27,6	408	945
16x2x0,50	22,7	235	625

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DIMENSIONS

No. of cores x cross section mm ²	Approx. outer diameter mm	Copper weight kg/km	Approx. cable weight kg/km
16x2x0,75	24,6	312	740
16x2x1	27,0	389	915
16x2x1,3	30,0	480	1095
16x2x1,5	31,3	542	1205
20x2x0,50	24,6	293	725
20x2x0,75	27,2	389	925
20x2x1	29,9	485	1115
20x2x1,3	33,2	600	1335
20x2x1,5	34,2	677	1440
24x2x0,50	26,8	350	880
24x2x0,75	29,7	466	1095
24x2x1	32,0	581	1270
24x2x1,3	35,6	719	1530
24x2x1,5	36,9	811	1665

