



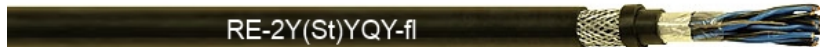
HALLEY CABLES

RE-2Y(St)YQY-fl 70° C

CU/PE/OSCR/PVC/SWB/PVC

Instrumentation Cables PVC DK PE 300 V

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



Construction:

- Conductor : plain copper wire, stranded.
- Insulation : PE compound.
- Core identification : black / white / red cores numbered 1-1-1, 2-2-2,... Upon request : colour coded according to IEC 60189-2.
Other core configurations manufactured upon request.
- Triple : three conductors twisted to a triple.
- Lay-up : pairs laid up in layers of optimum pitch.
- Separator : polyester tape.
- Screen : AL-PES tape over stranded tinned copper drain wire 0,50 mm².
- 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.
- Capacitance unbalance : (1 kHz) : max. 500 pF/500 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 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. 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. These cables are 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:

- 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 : ≤ 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.
- 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.
- 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.

www.halleycables.com

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DIMENSIONS

No. of cores x cross section mm ²	Approx. bedding diameter mm	Approx. outer diameter mm	Copper weight kg/km	Approx. cable weight kg/km
1x3x0,50	6,0	9,8	19	130
1x3x0,75	6,4	10,2	26	145
1x3x1	6,9	10,7	34	160
1x3x1,3	7,5	11,5	42	185
1x3x1,5	7,7	11,7	48	195
2x3x0,50	9,0	13,0	34	200
2x3x0,75	9,8	13,8	48	230
2x3x1	10,5	14,5	62	260
2x3x1,3	11,7	15,9	80	305
2x3x1,5	12,1	16,3	91	325
4x3x0,50	10,3	14,3	62	260
4x3x0,75	11,2	15,4	91	315
4x3x1	12,1	16,3	120	365
4x3x1,3	13,5	17,7	155	430
4x3x1,5	14,0	18,2	177	460
5x3x0,50	11,0	15,2	77	300
5x3x0,75	12,0	16,2	113	355
5x3x1	13,0	17,2	149	415
5x3x1,3	14,5	18,9	192	500
5x3x1,5	15,0	19,4	220	540
6x3x0,50	11,8	16,0	91	330
6x3x0,75	12,9	17,1	134	400
6x3x1	14,0	18,2	178	465
6x3x1,3	15,7	20,1	230	565
6x3x1,5	16,2	20,6	264	610
8x3x0,50	13,3	17,5	120	395
8x3x0,75	14,5	18,9	177	490
8x3x1	15,8	20,2	235	575
8x3x1,3	17,7	22,3	304	700
8x3x1,5	18,4	23,0	350	760
10x3x0,50	14,5	18,9	149	465
10x3x0,75	16,0	20,4	221	565
10x3x1	17,4	22,0	293	680
10x3x1,3	19,6	24,2	379	825
10x3x1,5	20,3	24,9	436	900
12x3x0,50	15,7	20,1	178	520
12x3x0,75	17,3	21,9	264	655

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12x3x1	18,8	23,4	350	775
12x3x1,3	21,2	26,4	454	1000
12x3x1,5	22,0	27,2	523	1085
16x3x0,50	17,8	22,4	235	645
16x3x0,75	19,6	24,2	350	800
16x3x1	21,4	26,6	466	1015
16x3x1,3	24,5	29,9	604	1280
16x3x1,5	25,4	30,8	696	1395
20x3x0,50	19,6	24,2	293	755
20x3x0,75	21,6	26,8	437	1000
20x3x1	24,0	29,2	581	1230
20x3x1,3	27,1	32,7	754	1535
20x3x1,5	28,1	33,7	868	1675
24x3x0,50	21,2	26,4	350	910
24x3x0,75	23,8	29,0	523	1175
24x3x1	26,1	31,5	696	1425
24x3x1,3	29,4	35,0	903	1765
24x3x1,5	30,5	36,1	1041	1935

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