



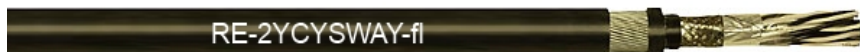
HALLEY CABLES

RE-2YCYSWAY-fl 70° C

CU/PE/OSCR/PVC/SWA/PVC

Instrumentation Cables PVC DK-PE 300 V

PE insulated, collective screened, armoured, PVC sheathed cable



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.
- Inner sheath : PVC compound.
- Armour : galvanized round steel wire.
- 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 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.
- Armour : EN 10257-1.
- 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 inner sheath protects the cable from mechanical shocks. 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-2YCYSWAY-fl 70° C ~ CU/PE/OSCR/PVC/SWA/PVC



RE-2YCYSWAY-f1 70° C

CU/PE/OSCR/PVC/SWA/PVC

Instrumentation Cables PVC DK-PE 300 V

PE insulated, collective screened, armoured, PVC sheathed cable



HALLEY CABLES

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
1x2x0,50	6,0	10,4	20	200
1x2x0,75	6,4	10,8	26	215
1x2x1	6,8	11,2	32	230
1x2x1,3	7,4	12,0	39	265
1x2x1,5	7,6	12,2	44	270
2x2x0,50	8,3	12,9	37	285
2x2x0,75	9,0	13,6	48	315
2x2x1	9,9	14,5	67	360
2x2x1,3	10,9	15,5	83	405
2x2x1,5	11,2	16,0	92	430
4x2x0,50	9,8	14,4	67	365
4x2x0,75	10,6	15,2	89	410
4x2x1	11,5	16,3	112	465
4x2x1,3	12,7	17,5	140	530
4x2x1,5	13,1	17,9	157	560
5x2x0,50	10,3	14,9	78	390
5x2x0,75	11,1	15,9	106	450
5x2x1	12,0	16,8	133	505
5x2x1,3	13,3	18,1	167	580
5x2x1,5	13,8	18,6	188	615
6x2x0,50	11,0	15,8	90	430
6x2x0,75	11,9	16,7	123	495
6x2x1	12,9	17,7	156	555
6x2x1,3	14,3	19,1	196	645
6x2x1,5	14,8	20,5	221	790
8x2x0,50	12,2	17,0	115	495
8x2x0,75	13,3	18,1	158	575
8x2x1	14,4	19,2	200	650
8x2x1,3	16,1	21,8	253	880
8x2x1,5	16,7	22,4	286	930
10x2x0,50	13,3	18,1	138	555
10x2x0,75	14,6	19,4	191	650
10x2x1	15,8	21,5	244	855
10x2x1,3	17,7	23,4	310	1000
10x2x1,5	18,3	24,2	350	1075
12x2x0,50	14,3	19,1	162	615
12x2x0,75	15,7	21,4	225	835

www.halleycables.com

RE-2YCYSWAY-f1 70° C ~ CU/PE/OSCR/PVC/SWA/PVC





HALLEY CABLES

RE-2YCYSWAY-f1 70° C

CU/PE/OSCR/PVC/SWA/PVC

Instrumentation Cables PVC DK-PE 300 V

PE insulated, collective screened, armoured, PVC sheathed cable

www.halleycables.com

RE-2YCYSWAY-f1 70° C ~ CU/PE/OSCR/PVC/SWA/PVC

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
12x2x1	17,1	22,8	288	950
12x2x1,3	19,5	25,4	398	1175
12x2x1,5	20,2	26,1	448	1250
16x2x0,50	16,1	21,8	207	840
16x2x0,75	17,7	23,6	290	995
16x2x1	19,7	25,6	407	1190
16x2x1,3	22,0	28,1	513	1410
16x2x1,5	22,8	28,9	579	1505
20x2x0,50	17,7	23,6	252	960
20x2x0,75	19,9	25,8	389	1180
20x2x1	21,6	27,7	495	1375
20x2x1,3	24,2	30,3	626	1625
20x2x1,5	25,1	31,4	708	1755
24x2x0,50	19,5	25,4	329	1115
24x2x0,75	21,4	27,5	456	1330
24x2x1	23,4	29,5	583	1540
24x2x1,3	26,6	33,6	738	2055
24x2x1,5	27,6	34,6	836	2200

