RE-Y(St)YSWAY-fl 70° C

CU/PVC/OSCR/PVC/SWA/PVC

Instrumentation Cables PVC DK PVC 500 V

PVC insulated and sheathed, screened, armoured, PVC sheathed cable

Construction:

Conductor	: plain copper wire, stranded.
Insulation	: PVC compound, 70° C.
Core identification	: black / blue / red cores are numbered (1-1-1, 2-2-2,…). 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	: AL-PES tape over stranded tinned copper drain wire 0,50 mm².
Inner sheath	: PVC compound 70° C.
Armour	: galvanized round steel wire.
Outer sheath	: PVC compound, 70° C.
Sheath colour	: RAL 9005, black or RAL 5015, blue.

Technical data and tests:

Rated voltage	: 500 V.
Test voltage	: Urms core-core : 2000 V; Urms core-screen : 2000 V.
Temperature range	: operation : - 30° C ~ + 70° C; installation : - 5° C ~ + 50° C.
Min. bending radius	: 10 x D.
Insulation resistance (20° C)	: min. 100 MΩ/km.

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	: 0,50 mm² : max. 160 pF/m; 0,75 mm² : max. 160 pF/m; 1,0 mm² : max. 160 pF/m; 1,3 mm² : max. 170 pF/m; 1,5 mm² : max. 170 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;

Standards:

Design	: DIN EN 50288-7.
Conductor	: IEC 60228 class 2, DIN EN 60228 class 2.
Insulation	: EN 50290-2-21.
Inner sheath	: EN 50290-2-22.
Armour	: EN 10257-1.
Outer sheath	: EN 50290-2-22.
Flame retardance test	: 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.

HALLEY CABLES

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www.halleycables.com

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DIMENSIONS

No. of cores x cross section mm²	Approx. bedding diameter mm	Approx. outer diameter mm	Copper weight kg/km	Approx. cable weight kg/km
1x3x0,50	6,7	11,1	19	220
1x3x0,75	7,1	11,7	26	245
1x3x1	7,5	12,1	34	265
1x3x1,3	8,0	12,6	42	290
1x3x1,5	8,4	13,0	48	305
2x3x0,50	10,2	14,8	34	345
2x3x0,75	10,9	15,7	48	390
2x3x1	11,7	16,5	62	430
2x3x1,3	12,7	17,5	80	480
2x3x1,5	13,3	18,1	91	510
4x3x0,50	11,7	16,5	62	445
4x3x0,75	12,6	17,4	91	505
4x3x1	13,5	18,3	120	565
4x3x1,3	14,7	20,4	155	745
4x3x1,5	15,4	21,1	177	800
5x3x0,50	12,5	17,3	77	490
5x3x0,75	13,5	18,3	113	560
5x3x1	14,5	19,5	149	645
5x3x1,3	15,8	21,5	192	840
5x3x1,5	16,5	22,2	220	905
6x3x0,50	13,5	18,3	91	545
6x3x0,75	14,6	19,6	134	635
6x3x1	15,7	21,4	178	825
6x3x1,3	17,1	23,0	230	950
6x3x1,5	17,9	23,8	264	1020
8x3x0,50	15,2	20,9	120	750
8x3x0,75	16,5	22,2	177	865
8x3x1	17,7	23,6	235	990
8x3x1,3	19,3	25,2	304	1135
8x3x1,5	20,3	26,2	350	1225
10x3x0,50	16,7	22,4	149	855
10x3x0,75	18,1	24,0	221	1000
10x3x1	19,6	25,5	293	1135
10x3x1,3	21,3	27,4	379	1325
10x3x1,5	22,4	28,5	436	1435
12x3x0,50	18,1	24,0	178	960
12x3x0,75	19,6	25,5	264	1115

IEC CE DVE RoHS PG TSE

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DIMENSIONS

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12x3x1	21,2	27,3	350	1290
12x3x1,3	23,1	29,2	454	1495
12x3x1,5	24,7	31,7	523	1835
16x3x0,50	20,5	26,4	235	1145
16x3x0,75	22,3	28,4	350	1360
16x3x1	24,5	31,5	466	1775
16x3x1,3	26,8	33,8	604	2050
16x3x1,5	28,1	35,3	696	2240
20x3x0,50	22,6	28,7	293	1330
20x3x0,75	25,0	32,0	437	1790
20x3x1	27,1	34,3	581	2070
20x3x1,3	29,6	36,8	754	2400
20x3x1,5	31,1	38,5	868	2630
24x3x0,50	24,9	31,9	350	1715
24x3x0,75	27,2	34,4	523	2030
24x3x1	29,4	36,6	696	2340
24x3x1,3	32,1	39,5	903	2745
24x3x1,5	34,2	42,6	1041	3315

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