



HALLEY CABLES

RE-2X(St)YSWAYÖ-uv-fl MP 70° C

CU/XLPE/OSCR/PVC/SWA/PVC

Instrumentation Cables 500 V

XLPE insulated, screened, armoured, PVC sheathed cable

www.halleycables.com

RE-2X(St)YSWAYÖ-uv-fl



Construction:

Conductor	: plain copper wire, stranded.
Insulation	: XLPE compound, (RE-2X....).
Core identification	: black / white cores numbered 1-1, 2-2,...
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 tinned copper drain wire 0,50 mm ² .
Inner sheath	: PVC compound.
Armour	: galvanized round steel wire.
Outer sheath	: PVC compound, UV and oil resistant.
Sheath colour	: RAL 9005, grey 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.
Capacitance unbalanced	: (1 kHz) : max. 500 pF/500 m.

Standards:

Standard	: DIN EN 50288-7.
Conductor	: IEC 60228 class 2, DIN EN 60228 class 2.
Insulation	: EN 50290-2-29.
Inner sheath	: EN 50290-2-22.
Armour	: EN 10257-1.
Flame retardancy	: IEC 60332-1 & EN 60332-1; IEC 60332-3 & DIN EN 50266-2-4.
Sunlight resistance	: UL 1581 section 1200.
Oil resistance	: ICEA S-82-552.

Technical data and tests:

Conductor resistance (20° C)	: 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.
Insulation resistance (20° C)	: min. 5000 MΩ/km.
Mutual capacitance (1 kHz)	: <u>≤ 4 pairs</u> <u>all other pairs</u> 0,50 mm ² : max. 100 pF/m, max. 65 pF/m; 0,75 mm ² : max. 100 pF/m, max. 65 pF/m; 1,0 mm ² : max. 100 pF/m, max. 65 pF/m; 1,3 mm ² : max. 100 pF/m, max. 75 pF/m; 1,5 mm ² : max. 100 pF/m, max. 75 pF/m.
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.

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 inner sheath protects the cable from mechanical shocks. These cables are recommended for direct burial. They are for indoor and outdoor installation, in dry and wet locations; on racks, trays, in conduits.



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DIMENSIONS

No. of cores x cross section no x mm ²	Approx. bedding diameter mm	Approx. outer diameter mm	Copper weight kg/km	Approx. cable weight kg/km
1x2x1	7,0	11,7	24	271
2x2x1	10,9	15,8	44	443
4x2x1	12,2	17,1	83	539
6x2x1	15,5	21,3	122	844
10x2x1	18,2	24,9	201	1214
1x2x1,5	7,6	12,3	34	301
10x2x1,5	20,3	27,2	303	1454
1x2x2,5	8,6	13,3	51	357
4x2x2,5	15,1	20,9	190	891
6x2x2,5	19,5	26,4	282	1376
10x2x2,5	23,0	30,1	467	1812

