RE-2Y(St)H 70° C

CU/PE/OSCR/LSZH

Instrumentation & Control Cables 500 V

PE insulated, collective screened, HFFR sheathed cable

Construction:

Conductor	: stranded copper wires.
Insulation	: PE compound, (RE-2Y….).
Core identification	: black cores are numbered (1-2-3…). Other core configurations manufactured upon request.
Lay-up	: cores laid up in layers of optimum pitch.
Separator	: polyester tape.
Screen	: AL-PES tape over stranded tinned copper drain wire 0,50 mm².
Outer sheath	: HFFR compound.
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	: 7.5 x D.

Technical data and tests:

Conductor resistance	: 0,50 mm² : 36,0 Ω/km;
	0,75 mm² : 24,5 Ω/km;
	1,0 mm² : 18,1 Ω/km;
	1,3 mm² : 13,9 Ω/km;
	1,5 mm² : 12,1 Ω/km;
	2,5 mm² : 7,4 Ω/km.
Insulation resistance	: min. 5000 MΩ/km.
Mutual Capacitance	: max. 120 pF/m.
Capacitance unbalanced	: (1 kHz) : max. 500 pF/500 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;
	2,5 mm² : 60 µH/Ω.

Standards:

Design	: EN 50288-7.
Conductor	: IEC 60228 class 2, DIN EN 60228 class 2.
Insulation	: EN 50290-2-23.
Outer sheath	: EN 50290-2-27.
Flame test	: IEC 60332-1 & DIN EN 60332-1;
	IEC 60332-3 & DIN EN 50266-2-4.
Smoke density test	: IEC 61034-2 & DIN EN 61034-2.
Halogen-free test	: IEC 60754-1/2 & DIN EN 50267-**2.**

Applications:

These cables are used for control purposes (e.g. controlling of pumps, valves or engines) at chemistry and petrochemistry industry plants, power plants, natural gas and petroleum plants, etc… These cables are used in environments which must have no corrosive gases emitted in the event of fire. In case of fire, these cables inhibit the propagation of the flames whereby the development of smoke is extremely low. Instrumentation cables are not allowed for direct connection to a low impedance source, e.g. public mains electricity supply. For applications where heat resistance up to 90° C is crucial, RE-2X(St)H cables are suitable. 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

DIMENSIONS

No. of cores x cross section mm²	Approx. outer diameter mm	Copper weight kg/km	Approx. cable weight kg/km
2x0,50	6,2	14	45
2x0,75	6,6	19	55
2x1	7,0	24	60
2x1,3	7,5	30	70
2x1,5	8,0	34	80
2x2,5	9,2	34	90
3x0,50	6,5	19	55
3x0,75	7,0	26	65
3x1	7,4	34	75
3x1,3	8,1	42	90
3x1,5	8,4	48	100
3x2,5	9,7	48	115
4x0,50	7,0	24	65
4x0,75	7,5	34	80
4x1	8,2	43	95
4x1,3	8,8	55	110
4x1,5	9,2	62	125
4x2,5	10,8	62	145
5x0,50	7,6	29	75
5x0,75	8,3	41	95
5x1	8,9	53	110
5x1,3	9,6	67	130
5x1,5	10,0	77	145
5x2,5	11,8	77	170
6x0,50	8,4	34	90
6x0,75	9,0	48	110
6x1	9,6	62	130
6x1,3	10,4	80	155
6x1,5	11,0	91	175
6x2,5	12,8	91	195
8x0,50	9,3	43	105
8x0,75	10,0	62	135
8x1	10,9	82	165
8x1,3	11,7	105	200
8x1,5	12,3	120	220
8x2,5	14,5	120	255
10x0,50	10,6	53	135
10x0,75	11,4	77	165
10x1	12,2	101	200
10x1,3	13,4	130	250
10x1,5	14,0	149	275
10x2,5	16,6	149	315

IEC CE VDE RoHS PG TSE

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HALLEY CABLES

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DIMENSIONS

No. of cores x cross section mm²	Approx. outer diameter mm	Copper weight kg/km	Approx. cable weight kg/km
12x0,50	10,9	62	150
12x0,75	11,8	91	190
12x1	12,6	120	225
12x1,3	13,8	155	285
12x1,5	14,4	178	315
12x2,5	17,1	178	360
14x0,50	11,4	72	170
14x0,75	12,3	106	210
14x1	13,2	139	260
14x1,3	14,5	180	320
14x1,5	15,1	206	360
14x2,5	18,0	206	410
16x0,50	12,0	82	185
16x0,75	12,9	120	235
16x1	14,1	158	295
16x1,3	15,3	204	360
16x1,5	16,2	235	410
16x2,5	19,2	235	465
20x0,50	13,5	101	230
20x0,75	14,5	149	290
20x1	15,6	197	355
20x1,3	17,1	254	445
20x1,5	17,9	293	495
20x2,5	21,5	293	575
24x0,50	14,8	120	270
24x0,75	16,2	178	350
24x1	17,4	235	430
24x1,3	19,1	304	530
24x1,5	20,0	350	595
24x2,5	23,8	350	675
27x0,50	15,1	134	290
27x0,75	16,5	199	385
27x1	17,8	264	470
27x1,3	19,5	342	585
27x1,5	20,4	394	655
27x2,5	24,5	394	755
30x0,50	15,6	149	320
30x0,75	17,1	221	420
30x1	18,4	293	515
30x1,3	20,2	379	640
30x1,5	21,1	437	720
30x2,5	25,4	437	825

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DIMENSIONS			
No. of cores x cross section mm²	Approx. outer diameter mm	Copper weight kg/km	Approx. cable weight kg/km
37x0,50	17,0	182	385
37x0,75	18,4	271	500
37x1	20,0	360	625
37x1,3	22,0	467	780
37x1,5	23,0	538	875
37x2,5	27,6	538	1000
40x0,75	19,3	293	545
40x1	20,8	389	670
40x1,3	22,8	504	840
40x1,5	24,1	581	950
40x2,5	28,7	581	1075