



HALLEY CABLES

RE-2Y(St)HSAWAH & RE-2X(St)HSAWAH

CU/PE/OSCR/LSZH//SWA/LSZH & CU/XLPE/OSCR/LSZH/SWA/LSZH

RE-2Y(St)HSAWAH, single & multi-triple, PE insulated, collective screened, LSZH sheathed cable
RE-2X(St)HSAWAH, single & multi-triple, XLPE insulated, collective screened, LSZH sheathed cable

RE-2Y(St)HSAWAH&RE-2X(St)HSAWAH



Construction:

- Conductor : plain annealed copper wire, BS 6360 0,50 mm² and 1,0 mm² flex., 0,50 mm² and 0,75 mm² flexible or 1,5 mm² stranded.
- Insulation (2Y) : PE compound, BS 6234 TYPE 03 (RE-2Y...).
- Insulation (2X) : XLPE compound, GP 8, BS 7655 (RE-2X...).
- Core identification : black / white / red (1-1-1, 2-2-2,...).
- Triple : three conductors twisted to a triple.
- Lay-up : triples laid up in layers of optimum pitch.
- Separator : polyester tape.
- Screen : AL-PES tape over tinned copper drain wire 0,50 mm².
- Bedding : LSZH compound, Black.
- Armour : galvanized round steel wire, BS EN 10257-1.
- Outer sheath : LSZH compound, LST1, BS 7655; LSZH : Low Smoke Zero Halogen.
- Sheath colour : RAL 9005, black or RAL 5015, blue.

Technical data and tests:

Rated voltage (U ^o /U)	: 300/500 V.	Capacitance unbalanced	: (1 kHz) : max. 250 pF/250 m.
Standard	: BS 5308 Part 1 Type 1.	L/R (oran-ratio) (max)	: 0,50 mm ² : 25 μH/Ω;
Insulation thickness	: 0,50 mm ² : 0,50 mm;		0,75 mm ² : 25 μH/Ω;
	1,0 mm ² : 0,60 mm;		1,0 mm ² : 25 μH/Ω;
	0,50 mm ² : 0,60 mm;		1,5 mm ² : 40 μH/Ω.
	0,75 mm ² : 0,60mm;	Test voltage	: Urms core-core : 1000 V;
	1,50 mm ² : 0,60mm.		Urms core-screen : 1000 V.
Conductor class, BS 6360	: 0,50 mm ² : Class 1;	Temperature range (2Y)	: operation : - 40° C ~ + 70° C;
	1,0 mm ² : Class 1;		installation : - 5° C ~ + 50° C.
	0,50 mm ² : Class 5;	Temperature range (2X)	: operation: - 40° C ~ + 90° C;
0,75 mm ² : Class 5;		installation: - 5° C ~ + 50° C.	
1,50 mm ² : Class 2.	Min. bending radius	: 8 x D.	
Conductor resistance	: 0,50 mm ² : 36,8 Ω/km;	Flame retardancy test	: IEC 60332-1 & BS EN 60332-1.
	1,0 mm ² : 18,4 Ω/km;		IEC 60332-3 & BS EN 50266-2-4.
	0,50 mm ² : 39,7 Ω/km;	Smoke density test	: IEC 61034-2 & BS EN 61034-2.
	0,75 mm ² : 26,5 Ω/km;	Halogen-free properties test	: IEC60754-1/2 & BS EN 50267-2.
1,50 mm ² : 12,3 Ω/km.			
Insulation resistance	: min. 5000 MΩ/km.		
Mutual capacitance (1 kHz)	: 0,50 mm ² : max. 115 pF/m (≤2 pairs),max. 75 pF/m (all other pairs);		
	0,75 mm ² : max. 115 pF/m (≤2 pairs),max. 75 pF/m (all other pairs);		
	1,0 mm ² : max. 115 pF/m (≤2 pairs),max. 75 pF/m (all other pairs);		
	1,50 mm ² : max. 120 pF/m (≤2 pairs),max. 85 pF/m (all other pairs).		

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 sources, e.g. public mains electricity supply. In case of fire, these cables inhibit the propagation of the flames whereby the development of smoke is extremely low. No corrosive gases are emitted in the event of fire. 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.





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www.halleycables.com

DIMENSIONS

Part number	No. of cores x cross section mm ²	Approx. outer diameter mm	Copper weight kg/km	Approx. cable weight kg/km
RE-2X(St)HSWAH	1x2x0,50	6,3	10,7	14
RE-2X(St)HSWAH	1x2x0,50	7,0	11,4	14
RE-2X(St)HSWAH	1x3x0,50	7,3	11,7	19
RE-2Y(St)HSWAH	1x3x0,50	7,3	11,7	19
RE-2Y(St)HSWAH	1x3x0,50	6,6	11,0	19
RE-2X(St)HSWAH	1x3x0,50	6,6	11,0	19
RE-2X(St)HSWAH	2x2x0,50	7,1	11,5	24
RE-2X(St)HSWAH	2x2x0,50	7,9	12,3	24
RE-2Y(St)HSWAH	2x3x0,50	11,5	16,3	33
RE-2Y(St)HSWAH	2x3x0,50	9,8	14,4	33
RE-2X(St)HSWAH	2x3x0,50	9,8	14,4	33
RE-2X(St)HSWAH	2x3x0,50	11,5	16,3	33
RE-2X(St)HSWAH	5x2x0,50	11,6	16,2	52
RE-2X(St)HSWAH	5x2x0,50	13,1	17,9	52
RE-2X(St)HSWAH	5x3x0,50	12,2	17,0	77
RE-2Y(St)HSWAH	5x3x0,50	14,1	19,8	77
RE-2Y(St)HSWAH	5x3x0,50	12,2	17,0	77
RE-2X(St)HSWAH	5x3x0,50	14,1	19,8	77
RE-2X(St)HSWAH	10x2x0,50	15,0	20,7	100
RE-2X(St)HSWAH	10x2x0,50	17,2	22,9	100
RE-2Y(St)HSWAH	10x3x0,50	19,3	25,9	149
RE-2X(St)HSWAH	15x2x0,50	17,1	22,8	149
RE-2Y(St)HSWAH	10x3x0,50	16,6	22,3	149
RE-2X(St)HSWAH	10x3x0,50	16,6	22,3	149
RE-2X(St)HSWAH	15x2x0,50	19,8	26,4	149
RE-2X(St)HSWAH	10x3x0,50	19,3	25,9	149
RE-2X(St)HSWAH	20x2x0,50	19,4	26,0	196
RE-2X(St)HSWAH	20x2x0,50	22,3	29,1	196
RE-2X(St)HSWAH	15x3x0,50	21,8	28,6	221
RE-2Y(St)HSWAH	15x3x0,50	21,8	28,6	221
RE-2X(St)HSWAH	15x3x0,50	20,0	25,6	221
RE-2Y(St)HSWAH	15x3x0,50	20,0	25,6	221
RE-2X(St)HSWAH	30x2x0,50	26,9	33,9	292
RE-2X(St)HSWAH	30x2x0,50	23,0	29,8	292
RE-2Y(St)HSWAH	20x3x0,50	21,4	28,2	293
RE-2X(St)HSWAH	20x3x0,50	21,4	28,2	293
RE-2X(St)HSWAH	20x3x0,50	25,2	32,2	293
RE-2Y(St)HSWAH	20x3x0,50	25,2	32,2	293
RE-2X(St)HSWAH	30x3x0,50	30,5	38,5	437
RE-2Y(St)HSWAH	30x3x0,50	26,0	33,0	437
RE-2Y(St)HSWAH	30x3x0,50	30,5	38,5	437
RE-2X(St)HSWAH	30x3x0,50	26,0	33,0	437

RE-2Y(St)HSWAH & RE-2X(St)HSWAH ~ CU/PE/OSCR/LSZH//SWA/LSZH & CU/XLPE/OSCR/LSZH/SWA/LSZH





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RE-2X(St)HSWAH, single & multi-triple, XLPE insulated, collective screened, LSZH sheathed cable

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DIMENSIONS

Part number	No. of cores x cross section mm ²	Approx. outer diameter mm	Copper weight kg/km	Approx. cable weight kg/km
RE-2X(St)HSWAH	50x2x0,50	28,9	36,1	484
RE-2X(St)HSWAH	50x2x0,50	33,9	42,1	484
RE-2X(St)HSWAH	50x3x0,50	32,9	41,1	725
RE-2Y(St)HSWAH	50x3x0,50	38,7	48,3	725
RE-2Y(St)HSWAH	50x3x0,50	32,9	41,1	725
RE-2X(St)HSWAH	50x3x0,50	38,7	48,3	725
RE-2X(St)HSWAH	1x2x0,75	7,3	11,7	19
RE-2Y(St)HSWAH	1x3x0,75	7,5	11,9	26
RE-2X(St)HSWAH	1x3x0,75	7,5	11,9	26
RE-2X(St)HSWAH	2x2x0,75	8,3	12,9	33
RE-2X(St)HSWAH	2x3x0,75	12,8	18,3	48
RE-2Y(St)HSWAH	2x3x0,75	12,8	18,3	48
RE-2X(St)HSWAH	5x2x0,75	14,3	19,8	77
RE-2X(St)HSWAH	5x3x0,75	15,6	21,3	113
RE-2Y(St)HSWAH	5x3x0,75	15,6	21,3	113
RE-2X(St)HSWAH	10x2x0,75	18,7	25,3	149
RE-2X(St)HSWAH	15x2x0,75	21,4	28,2	221
RE-2Y(St)HSWAH	10x3x0,75	21,3	28,1	221
RE-2X(St)HSWAH	10x3x0,75	21,3	28,1	221
RE-2X(St)HSWAH	20x2x0,75	24,5	31,3	292
RE-2Y(St)HSWAH	15x3x0,75	24,7	31,7	329
RE-2X(St)HSWAH	15x3x0,75	24,7	31,7	329
RE-2X(St)HSWAH	20x3x0,75	27,9	34,9	437
RE-2Y(St)HSWAH	20x3x0,75	27,9	34,9	437
RE-2X(St)HSWAH	30x2x0,75	29,5	37,5	437
RE-2X(St)HSWAH	30x3x0,75	33,8	42	653
RE-2Y(St)HSWAH	30x3x0,75	33,8	42	653
RE-2X(St)HSWAH	50x2x0,75	37,4	45,8	725
RE-2Y(St)HSWAH	50x3x0,75	43,4	53,2	1085
RE-2X(St)HSWAH	50x3x0,75	43,4	53,2	1085
RE-2X(St)HSWAH	1x2x1	7,4	11,8	24
RE-2Y(St)HSWAH	1x3x1	7,7	12,1	33
RE-2X(St)HSWAH	1x3x1	7,7	12,1	33
RE-2X(St)HSWAH	2x2x1	8,4	13,0	43
RE-2X(St)HSWAH	2x3x1	12,3	17,1	62
RE-2Y(St)HSWAH	2x3x1	12,3	17,1	62
RE-2X(St)HSWAH	5x2x1	14,2	19,7	100
RE-2Y(St)HSWAH	5x3x1	15,2	20,9	148
RE-2X(St)HSWAH	5x3x1	15,2	20,9	148
RE-2X(St)HSWAH	10x2x1	18,4	24,3	196
RE-2X(St)HSWAH	10x3x1	20,8	27,4	292
RE-2Y(St)HSWAH	10x3x1	20,8	27,4	292

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RE-2X(St)HSWAH, single & multi-triple, XLPE insulated, collective screened, LSZH sheathed cable

DIMENSIONS

Part number	No. of cores x cross section mm ²	Approx. outer diameter mm	Copper weight kg/km	Approx. cable weight kg/km
RE-2X(St)HSWAH	15x2x1	21,3	28,1	292
RE-2X(St)HSWAH	20x2x1	24,4	31,2	388
RE-2X(St)HSWAH	15x3x1	24,1	30,9	437
RE-2Y(St)HSWAH	15x3x1	24,1	30,9	437
RE-2X(St)HSWAH	30x2x1	29,0	36,2	580
RE-2X(St)HSWAH	20x3x1	27,2	34,2	581
RE-2Y(St)HSWAH	20x3x1	27,2	34,2	581
RE-2X(St)HSWAH	30x3x1	32,9	41,1	869
RE-2Y(St)HSWAH	30x3x1	32,9	41,1	869
RE-2X(St)HSWAH	50x2x1	37,3	45,7	964
RE-2Y(St)HSWAH	50x3x1	42,3	52,1	1445
RE-2X(St)HSWAH	50x3x1	42,3	52,1	1445
RE-2X(St)HSWAH	1x2x1,5	8,3	12,9	33
RE-2X(St)HSWAH	1x3x1,5	8,6	13,2	48
RE-2Y(St)HSWAH	1x3x1,5	8,6	13,2	48
RE-2X(St)HSWAH	2x2x1,5	9,7	14,3	62
RE-2X(St)HSWAH	2x3x1,5	14,0	19,5	91
RE-2Y(St)HSWAH	2x3x1,5	14,0	19,5	91
RE-2X(St)HSWAH	5x2x1,5	16,4	22,1	148
RE-2X(St)HSWAH	5x3x1,5	17,8	23,7	221
RE-2Y(St)HSWAH	5x3x1,5	17,8	23,7	221
RE-2X(St)HSWAH	10x2x1,5	21,6	28,4	292
RE-2X(St)HSWAH	15x2x1,5	25,2	32,2	436
RE-2Y(St)HSWAH	10x3x1,5	24,9	31,9	437
RE-2X(St)HSWAH	10x3x1,5	24,9	31,9	437
RE-2X(St)HSWAH	20x2x1,5	28,5	35,7	580
RE-2Y(St)HSWAH	15x3x1,5	28,3	35,3	653
RE-2X(St)HSWAH	15x3x1,5	28,3	35,3	653
RE-2Y(St)HSWAH	20x3x1,5	32,5	40,7	867
RE-2X(St)HSWAH	20x3x1,5	32,5	40,7	867
RE-2X(St)HSWAH	30x2x1,5	34,3	42,5	868
RE-2Y(St)HSWAH	30x3x1,5	39,4	49,0	1301
RE-2X(St)HSWAH	30x3x1,5	39,4	49,0	1301
RE-2X(St)HSWAH	50x2x1,5	43,6	53,4	1444
RE-2Y(St)HSWAH	50x3x1,5	49,8	60,0	2165
RE-2X(St)HSWAH	50x3x1,5	49,8	60,0	2165

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