RE-2X(St)HSWAH-TIMF 90° C

CU/XLPE/ISCR/OSCR/LSZH/SWA/LSZH

Instrumentation Cables HFFR DK 500 V

XLPE insulated, screened, armoured, HFFR sheathed cable

HALLEY CABLES

Construction:

Conductor	: plain copper wire, stranded.
Insulation	: XLPE compound (RE-2X…).
Core identification	: black / blue / red with numbered tape under the separator tape of the pair screen. Upon request: black / blue / red cores numbered 1-1-1, 2-2-2,…
TIMF construction	: polyester tape above the triple, AL-PES tape over solid tinned copper drain wire, 0,60 mm. Upon request: stranded 0,50 mm² copper drain wire.
Lay-up	: TIMF laid up in layers of optimum pitch.
Triple	: three conductors twisted to a triple.
Separator	: polyester tape.
Screen	: AL-PES tape over stranded tinned copper drain wire 0,50 mm².
Inner/outer sheath	: HFFR compound.
Armour	: galvanized round steel wire.
Sheath colour	: RAL 9005, black or RAL 5015, blue.
Note	: other core configurations manufactured upon request.

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 ~ + 90° C; installation : - 5° C ~ + 50° C.
Min. bending radius	: 10 x D.
Insulation resistance	: min. 5000 MΩ/km.

Standards:

Design	: EN 50288-7.
Conductor	: IEC 60228 class 2, DIN EN 60228 class 2.
Insulation	: EN 50290-2-29.
Inner/outer sheath	: EN 50290-2-27.
Armour	: EN 10257-1.

Technical data and tests:

Mutual capacitance	: max 100 pF/m.
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.
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:

Flame test	: IEC 60332-1 & EN 60332-1; IEC 60332-3 & DIN EN 50266-2-4.
Smoke density	: IEC 61034-2 & DIN EN 61034-2.
Halogen-free	: IEC 60754-1/2 & DIN EN 50267-2.

Applications:

These cables are used for transmission of analogue and digital signals in instrumentation and control systems in 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. 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.

IEC CE VDE RoHS PG TSE

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
2x3x0,50	12,2	17,0	43	425
2x3x0,75	13,1	17,9	58	470
2x3x1	14,1	19,1	72	520
2x3x1,3	15,3	21,0	89	680
2x3x1,5	16,1	21,8	101	720
4x3x0,50	13,9	18,7	82	530
4x3x0,75	15,1	20,8	110	705
4x3x1	16,2	21,9	139	775
4x3x1,3	17,6	23,5	174	880
4x3x1,5	18,5	24,4	197	940
5x3x0,50	14,7	19,7	101	585
5x3x0,75	15,9	21,6	137	770
5x3x1	17,2	23,1	173	865
5x3x1,3	18,7	24,6	216	975
5x3x1,5	19,6	25,5	245	1040
6x3x0,50	15,9	21,6	120	755
6x3x0,75	17,2	23,1	163	860
6x3x1	18,6	24,5	206	960
6x3x1,3	20,3	26,2	258	1080
6x3x1,5	21,3	27,4	292	1170
8x3x0,50	18,0	23,9	158	890
8x3x0,75	19,5	25,4	216	1015
8x3x1	21,1	27,2	274	1150
8x3x1,3	23,0	29,1	343	1300
8x3x1,5	24,6	31,6	389	1615
10x3x0,50	19,8	25,7	197	1010
10x3x0,75	21,5	27,6	267	1170
10x3x1	23,3	29,4	341	1315
10x3x1,3	25,8	32,8	427	1720
10x3x1,5	27,1	34,3	485	1865
12x3x0,50	21,5	27,6	235	1140
12x3x0,75	23,8	30,1	322	1355
12x3x1	25,7	32,7	408	2649
12x3x1,3	28,0	35,2	512	1945
12x3x1,5	29,5	36,7	581	2090
16x3x0,50	24,8	31,8	312	1565
16x3x0,75	27,0	34,2	427	1810

IEC CE VDE RoHS

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16x3x1	29,2	36,4	542	2040
16x3x1,3	32,0	39,4	681	2350
16x3x1,5	33,6	42,0	773	2805
20x3x0,50	27,4	34,6	389	1805
20x3x0,75	29,9	37,1	533	2075
20x3x1	32,3	39,7	677	2375
20x3x1,3	35,8	44,2	850	3060
20x3x1,5	37,6	46,2	965	3320
24x3x0,50	29,7	36,9	466	2015
24x3x0,75	32,4	39,8	638	2350
24x3x1	35,5	43,9	811	3010
24x3x1,3	38,9	47,5	1019	3465
24x3x1,5	40,9	49,7	1157	3765

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