RE-2X(St)H-TIMF 90° C

CU/XLPE/ISCR/OSCR/LSZH

Instrumentation Cables HFFR DK 500 V

XLPE insulated, individual & collective screened, HFFR sheathed cable

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,…
Triple	: three conductors twisted to a triple.
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.
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 ~ + 90° C; installation : - 5° C ~ + 50° C.
Min. bending radius	: 7.5 x D.
Insulation resistance	: min. 5000 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.
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.
Mutual capacitance	: max 100 pF/m.

Standards:

Design	: DIN EN 50288-7.
Conductor	: IEC 60228 class 2, DIN EN 60228 class 2.
Insulation	: EN 50290-2-29.
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	: 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. 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

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HALLEY CABLES

www.halleycables.com

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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
2x3x0,50	12,4	43	120
2x3x0,75	13,5	58	150
2x3x1	14,5	72	170
2x3x1,3	15,7	89	195
2x3x1,5	16,7	101	225
4x3x0,50	14,3	82	190
4x3x0,75	15,5	110	230
4x3x1	16,8	139	275
4x3x1,3	18,2	174	330
4x3x1,5	19,3	197	370
5x3x0,50	15,1	101	220
5x3x0,75	16,5	137	275
5x3x1	17,8	173	325
5x3x1,3	19,5	216	400
5x3x1,5	20,4	245	435
6x3x0,50	16,5	120	260
6x3x0,75	17,8	163	320
6x3x1	19,4	206	385
6x3x1,3	21,1	258	460
6x3x1,5	22,3	292	520
8x3x0,50	18,6	158	330
8x3x0,75	20,3	216	415
8x3x1	22,1	274	500
8x3x1,3	24,0	343	600
8x3x1,5	25,4	389	675
10x3x0,50	20,6	197	405
10x3x0,75	22,5	267	505
10x3x1	24,5	341	615
10x3x1,3	26,6	427	735
10x3x1,5	28,1	485	830
12x3x0,50	22,5	235	480
12x3x0,75	24,6	322	600
12x3x1	26,5	408	715
12x3x1,3	29,0	512	875
12x3x1,5	30,7	581	985
16x3x0,50	25,6	312	620
16x3x0,75	28,0	427	780

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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
16x3x1	30,4	542	945
16x3x1,3	33,4	681	1155
16x3x1,5	35,2	773	1295
20x3x0,50	28,4	389	760
20x3x0,75	31,1	533	960
20x3x1	33,7	677	1165
20x3x1,3	37,0	850	1420
20x3x1,5	39,0	965	1590
24x3x0,50	30,9	466	900
24x3x0,75	33,8	638	1140
24x3x1	36,7	811	1380
24x3x1,3	40,3	1019	1680
24x3x1,5	42,5	1157	1885