RE-2Y(St)H-PIMF 70° C

CU/PE/ISCR/OSCR/LSZH

Instrumentation Cables HFFR DK 500 V

PE insulated, individual & collective screened, HFFR sheathed cable

Construction:

Conductor	: plain copper wire, stranded.
Insulation	: PE compound (RE-2Y…).
Core identification	: black / blue, with numbered tape under separator tape of the pair screen. Upon request: black / blue cores numbered 1-1, 2-2,… Other core configurations manufactured upon request.
Pair	: two conductors twisted to a pair.
PIMF construction	: polyester tape above the pair, AL-PES tape over solid tinned copper drain wire, 0,60 mm. Upon request: stranded 0,50 mm² copper drain wire.
Lay-up	: PIMF 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.
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 50290-2-23.
Outer sheath	: EN 50290-2-27.
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. 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

RE-2Y(St)H-PIMF 70° C

CU/PE/ISCR/OSCR/LSZH

Instrumentation Cables HFFR DK 500 V

PE insulated, individual & collective screened, HFFR sheathed cable

HALLEY CABLES

www.halleycables.com

RE-2Y(St)H-PIMF 70° C ~ CU/PE/ISCR/OSCR/LSZH

DIMENSIONS

No. of cores x cross section mm²	Approx. outer diameter mm	Copper weight kg/km	Approx. cable weight kg/km
2x2x0,50	10,3	34	90
2x2x0,75	11,3	43	110
2x2x1	12,1	53	125
2x2x1,3	13,0	64	145
2x2x1,5	13,8	72	165
4x2x0,50	12,1	62	140
4x2x0,75	13,1	82	170
4x2x1	14,2	101	205
4x2x1,3	15,4	123	240
4x2x1,5	16,1	139	260
5x2x0,50	12,9	77	165
5x2x0,75	14,2	101	205
5x2x1	15,2	125	240
5x2x1,3	16,7	153	290
5x2x1,5	17,5	173	320
6x2x0,50	14,1	91	195
6x2x0,75	15,2	120	235
6x2x1	16,6	149	285
6x2x1,3	18,0	183	335
6x2x1,5	19,0	206	375
8x2x0,50	15,9	120	245
8x2x0,75	17,4	158	305
8x2x1	18,7	197	360
8x2x1,3	20,5	242	435
8x2x1,5	21,7	274	490
10x2x0,50	17,6	149	300
10x2x0,75	19,3	197	375
10x2x1	20,7	245	440
10x2x1,3	22,8	302	535
10x2x1,5	23,9	341	590
12x2x0,50	19,2	178	360
12x2x0,75	20,8	235	435
12x2x1	22,6	293	525
12x2x1,3	24,8	361	635
12x2x1,5	26,0	408	700
16x2x0,50	21,9	235	465
16x2x0,75	23,7	312	565

IEC CE VDE RoHS

RE-2Y(St)H-PIMF 70° C

CU/PE/ISCR/OSCR/LSZH

Instrumentation Cables HFFR DK 500 V

PE insulated, individual & collective screened, HFFR sheathed cable

HALLEY CABLES

www.halleycables.com

RE-2Y(St)H-PIMF 70° C ~ CU/PE/ISCR/OSCR/LSZH

DIMENSIONS

No. of cores x cross section mm²	Approx. outer diameter mm	Copper weight kg/km	Approx. cable weight kg/km
16x2x1	25,8	389	680
16x2x1,3	28,3	480	820
16x2x1,5	29,9	542	920
20x2x0,50	24,1	293	560
20x2x0,75	26,3	389	695
20x2x1	28,6	485	835
20x2x1,3	31,4	600	1010
20x2x1,5	33,1	677	1130
24x2x0,50	26,2	350	660
24x2x0,75	28,7	466	825
24x2x1	31,2	581	990
24x2x1,3	34,2	719	1200
24x2x1,5	36,1	811	1340

IEC CE VDE RoHS