RE-2X(St)H



Areas of Use

Used for communication and instrumentation purposes in industries like oil exploration, cement, paper, steel, power generation as well as in intrinsically safe systems in hazardous areas like petrochemical plants and thermal power plants to monitor measuring equipment in process automation applications. HFFR types are less flammable in case of fire, mostly self-extinguishing, have low smoke density and they do not emit poisonous and corrosive gasses during a fire.

Cable Construction

Conductor	Stranded Annealed Copper (IEC/EN 60228, Class 2)
Insulation	XLPE (EN 50290-2-29)
Core Colors	Multicore: White Numbered Pair: Black / White, Numbered Triples: Balck / White / Red, Numbered Quad: Black / White / Red / Blue, Numbered
Lay-up	Cores / pairs / triples / quads are stranded in layers
Separator	PET Foil
Overall Screen	Al-PET Foil (with 7x0.3 mm Tinned Copper Drain Wire)
Reference Standards	BS/EN 50288-7
Outer Sheath	Halogen Free Flame Retardant Compound (HFFR /LSZH/LSOH/FRNC) (EN 50290-2-27), RAL 9005 - Black, RAL 5015 - Blue (other colors upon request)

Technical Properties

Operating Voltage	500 V*
Test Voltage	Core - Core: 2000 V; Core - Screen: 1000 V
Conductor Resistance	0.50 mm² - ≤36 Ω/km; 0.75 mm² - ≤24.5 Ω/km; 1.00 mm² - ≤18.1 Ω/km; 1.30 mm² - ≤14.2 Ω/km; 1.50 mm² - ≤12.1 Ω/km; 2.50 mm² - ≤7.41 Ω/km
Insulation Resistance	>5000 M.Ωxkm
Capacitance Unbalance (800 Hz)	≤500 pF/500m
Capacitance (@800Hz)	≤85 nF/km (Capacitance values may increase by 20% up to 4 pairs)
L/R Ratio	0.50 mm²..1.00 mm² - ≤25 µH/Ω; 1.30 mm²..1.50 mm² - ≤40 µH/Ω; 2.50 mm² - ≤60 µH/Ω
Temperature Range	Fixed: -40 °C .....+90 °C, Flexible: -5 °C .....+50 °C
Flame Retardancy	IEC/EN 60332-1, IEC/EN 60332-3-24 (CAT C)
Smoke Density	IEC/EN 61034-1
Amount of Halogen Acid Gas	IEC/EN 60754-1
Corrosive Gases Measurement	IEC/EN 60754-2
Oil Resistance	IEC/EN 60811-404, ASTM No 2 oil 70 °C 4 hours
Min. Bending Radius (Fixed)	8 x Cable Diameter

Cross Section

Configuration / Cross-Section	Cable Diameter (mm) (± 5%)	Copper Weight (kg / km)	~ Cable Weight (kg / km)

(mm/mm²)			
1x2x0.5	5.7	14	52
2x2x0.5	8.4	24	89
3x2x0.5	8.9	33	107
4x2x0.5	9.8	43	131
5x2x0.5	10.7	53	153
6x2x0.5	11.7	62	179
7x2x0.5	11.7	72	193
8x2x0.5	13.2	81	224
10x2x0.5	15.0	100	273
12x2x0.5	15.6	120	312
14x2x0.5	16.4	139	348
16x2x0.5	17.4	158	392
18x2x0.5	18.4	177	436
24x2x0.5	21.7	234	570
30x2x0.5	23.1	292	679
1x2x0.75	6.2	19	61
2x2x0.75	9.2	34	106
3x2x0.75	9.9	48	134
4x2x0.75	10.8	63	162
5x2x0.75	11.9	78	194
6x2x0.75	13.0	92	227
7x2x0.75	13.0	107	247
8x2x0.75	14.7	121	287
10x2x0.75	16.8	150	350
12x2x0.75	17.4	179	402
14x2x0.75	18.3	208	450
16x2x0.75	19.4	238	507
18x2x0.75	20.6	267	565
20x2x0.75	21.8	296	625
24x2x0.75	24.4	354	749
30x2x0.75	26.0	441	895
1x2x1	6.5	24	68
2x2x1	9.7	44	121
3x2x1	10.4	64	156
4x2x1	11.5	83	193
5x2x1	12.5	103	228
6x2x1	13.8	123	268
7x2x1	13.8	142	293
8x2x1	15.6	162	339
10x2x1	17.8	201	422
12x2x1	18.4	241	479
14x2x1	19.5	280	547
16x2x1	20.7	319	616
18x2x1	21.9	359	687
20x2x1	23.3	398	761
24x2x1	25.9	477	902

30x2x1	27.6	594	1093
1x2x1.3	7.0	30	80
2x2x1.3	10.4	56	143
3x2x1.3	11.1	81	180
4x2x1.3	12.3	107	225
5x2x1.3	13.5	132	272
6x2x1.3	14.8	158	319
7x2x1.3	14.8	183	351
8x2x1.3	16.8	209	407
10x2x1.3	19.2	260	505
12x2x1.3	19.9	311	576
14x2x1.3	21.0	362	659
16x2x1.3	22.3	413	743
18x2x1.3	23.6	464	829
20x2x1.3	25.1	515	918
24x2x1.3	28.0	617	1097
30x2x1.3	29.8	771	1321
1x2x1.5	7.2	33	85
2x2x1.5	10.8	62	152
3x2x1.5	11.6	91	198
4x2x1.5	12.8	120	247
5x2x1.5	14.0	148	293
6x2x1.5	15.3	177	344
7x2x1.5	15.3	206	380
8x2x1.5	17.5	235	446
10x2x1.5	20.0	292	554
12x2x1.5	20.7	350	633
14x2x1.5	21.9	407	723
16x2x1.5	23.2	465	816
18x2x1.5	24.6	522	910
20x2x1.5	26.1	580	1007
24x2x1.5	29.1	695	1203
30x2x1.5	31.0	867	1450
1x2x2.5	8.5	51	117
2x2x2.5	12.9	97	218
3x2x2.5	13.8	144	282
4x2x2.5	15.3	190	355
5x2x2.5	16.9	236	438
6x2x2.5	18.6	283	516
7x2x2.5	18.6	329	572
8x2x2.5	21.1	376	660
10x2x2.5	24.2	468	828
12x2x2.5	25.1	560	952
14x2x2.5	26.5	653	1089
16x2x2.5	28.1	746	1230
18x2x2.5	29.9	838	1383

20x2x2.5	31.7	931	1530
24x2x2.5	35.5	1116	1840
30x2x2.5	37.8	1394	2223

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