RE-2Y(St)HSWAH



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. Armoured types provide mechanical strength and protect the cable core against outer mechanical effects.

Cable Construction

Conductor	Stranded Annealed Copper (IEC/EN 60228, Class 2)
Insulation	PE (EN 50290-2-23)
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)
Inner Sheath	Halogen Free Flame Retardant Compound (HFFR/LSZH/LSOH/FRNC) (EN 50290-2-27)
Armour	Round Galvanized Steel Wire (Min. Diameter 0.90 mm ±0.02 mm)
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)
Reference Standards	BS/EN 50288-7

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 .....+70 °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)	12 x Cable Diameter

Cross Section

Configuration / Cross-Section (mm/mm²)	Cable Diameter (mm) (± 5%)	Copper Weight (kg / km)	~ Cable Weight (kg / km)
1x2x0.5	10.2	14	244
2x2x0.5	13.0	24	354
3x2x0.5	13.5	33	387
4x2x0.5	14.5	43	439
5x2x0.5	15.4	53	489
6x2x0.5	16.5	62	545
7x2x0.5	16.5	72	559
8x2x0.5	18.1	81	641
10x2x0.5	20.8	100	880
12x2x0.5	21.4	120	945
14x2x0.5	22.3	139	0
16x2x0.5	23.3	158	0
18x2x0.5	24.3	177	0
20x2x0.5	25.6	196	0
24x2x0.5	28.4	234	0
30x2x0.5	29.9	292	0
1x2x0.75	10.7	19	262
2x2x0.75	13.9	34	397
3x2x0.75	14.6	48	441
4x2x0.75	15.6	63	503
5x2x0.75	16.7	78	566
6x2x0.75	17.9	92	635
7x2x0.75	17.9	107	655
8x2x0.75	20.4	121	873
10x2x0.75	22.7	150	1030
12x2x0.75	23.3	179	1099
14x2x0.75	24.3	208	0
16x2x0.75	25.5	238	0
18x2x0.75	27.3	267	0
20x2x0.75	28.5	296	0
24x2x0.75	31.5	354	0
30x2x0.75	34.0	441	0
1x2x1	11.0	24	277
2x2x1	14.5	44	431
3x2x1	15.1	64	479
4x2x1	16.3	83	551
5x2x1	17.5	103	626
6x2x1	18.8	123	705
7x2x1	18.8	142	730
8x2x1	21.5	162	966
10x2x1	23.8	201	1141
12x2x1	24.4	241	1224
14x2x1	25.6	280	0

16x2x1	27.4	319	0
18x2x1	28.7	359	0
20x2x1	30.1	398	0
24x2x1	34.0	477	0
30x2x1	35.7	594	0
1x2x1.3	11.5	30	303
2x2x1.3	15.1	56	466
3x2x1.3	16.0	81	534
4x2x1.3	17.2	107	611
5x2x1.3	18.4	132	690
6x2x1.3	20.5	158	906
7x2x1.3	20.5	183	938
8x2x1.3	22.7	209	1087
10x2x1.3	25.3	260	1286
12x2x1.3	26.0	311	1385
14x2x1.3	27.7	362	0
16x2x1.3	29.1	413	0
18x2x1.3	30.4	464	0
20x2x1.3	32.2	515	0
24x2x1.3	36.1	617	0
30x2x1.3	38.2	771	0
1x2x1.5	11.8	33	318
2x2x1.5	15.6	62	493
3x2x1.5	16.4	91	555
4x2x1.5	17.7	120	647
5x2x1.5	19.0	148	731
6x2x1.5	21.2	177	969
7x2x1.5	21.2	206	1004
8x2x1.5	23.4	235	1142
10x2x1.5	26.0	292	1355
12x2x1.5	27.4	350	0
14x2x1.5	28.7	407	0
16x2x1.5	30.0	465	0
18x2x1.5	31.7	522	0
20x2x1.5	34.1	580	0
24x2x1.5	37.3	695	0
30x2x1.5	39.3	867	0
1x2x2.5	13.1	51	381
2x2x2.5	17.8	97	620
3x2x2.5	18.8	144	712
4x2x2.5	21.2	190	967
5x2x2.5	22.7	236	1101
6x2x2.5	24.5	283	1253
7x2x2.5	24.5	329	1310
8x2x2.5	27.8	375	1636
10x2x2.5	31.0	468	1954

12x2x2.5	32.2	560	0
14x2x2.5	34.6	653	0
16x2x2.5	36.3	746	0
18x2x2.5	38.2	838	0
20x2x2.5	40.1	931	0
24x2x2.5	45.1	1116	0
30x2x2.5	47.7	1394	0

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