RE-Y(St)YSWAY-fI



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. 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	PVC (EN 50290-2-21)
Core Colors	Multicore: White Numbered Pair: Black / White, Numbered Triples: Balck / White / Red, Numbered Quad: Black / White / Red / Blue, Numbered
Separator	PET Foil
Overall Screen	Al-PET Foil (with 7x0.3 mm Tinned Copper Drain Wire)
Inner Sheath	PVC (EN 50290-2-22)
Armour	Round Galvanized Steel Wire (Min. Diameter 0.90 mm ±0.02 mm)
Outer Sheath	UV Resistant, Flame Retardant PVC (EN 50290-2-22), RAL 9005 - Black, RAL 5015 - Blue (other colors upon request)
Reference Standards	BS/EN 50288-7
Lay-up	Cores / pairs / triples / quads are stranded in layers

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
Capacitance Unbalance (800 Hz)	≤500 pF/500m
Capacitance (@800Hz)	≤250 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)
Oil Resistance	IEC/EN 60811-404, ASTM No 2 oil 70 °C 4 hours
Min. Bending Radius (Fixed)	12 x Cable Diameter
Insulation Resistance	>10 M.Ωxkm

Cross Section

Configuration / Cross-Section (mm/mm²)	Cable Diameter (mm) (± 5%)	Copper Weight (kg / km)	~ Cable Weight (kg / km)

1x2x0.5	10.2	14	246
2x2x0.5	13.0	24	359
3x2x0.5	13.5	33	395
4x2x0.5	14.5	43	450
5x2x0.5	15.4	53	503
6x2x0.5	16.5	62	561
7x2x0.5	16.5	72	579
8x2x0.5	18.1	81	663
10x2x0.5	20.8	100	908
12x2x0.5	21.4	120	978
14x2x0.5	22.3	139	1054
16x2x0.5	23.3	158	1135
18x2x0.5	24.3	177	1224
20x2x0.5	25.6	196	1325
24x2x0.5	28.4	234	1670
30x2x0.5	29.9	292	1866
1x2x0.75	10.7	19	265
2x2x0.75	13.9	34	404
3x2x0.75	14.6	48	451
4x2x0.75	15.6	63	516
5x2x0.75	16.7	78	582
6x2x0.75	17.9	92	654
7x2x0.75	17.9	107	678
8x2x0.75	20.4	121	899
10x2x0.75	22.7	150	1062
12x2x0.75	23.3	179	1137
14x2x0.75	24.3	208	1238
16x2x0.75	25.5	238	1352
18x2x0.75	27.3	267	1597
20x2x0.75	28.5	296	1722
24x2x0.75	31.5	354	2037
30x2x0.75	34.0	441	2521
1x2x1	11.0	24	280
2x2x1	14.5	44	438
3x2x1	15.1	64	489
4x2x1	16.3	83	565
5x2x1	17.5	103	644
6x2x1	18.8	123	726
7x2x1	18.8	142	755
8x2x1	21.5	162	994
10x2x1	23.8	201	1176
12x2x1	24.4	241	1266
14x2x1	25.6	280	1390
16x2x1	27.4	319	1646
18x2x1	28.7	359	1792
20x2x1	30.1	398	1933

24x2x1	34.0	477	2527
30x2x1	35.7	594	2838
1x2x1.3	11.5	30	307
2x2x1.3	15.1	56	474
3x2x1.3	16.0	81	546
4x2x1.3	17.2	107	626
5x2x1.3	18.4	132	709
6x2x1.3	20.5	158	929
7x2x1.3	20.5	183	965
8x2x1.3	22.7	209	1118
10x2x1.3	25.3	260	1325
12x2x1.3	26.0	311	1430
14x2x1.3	27.7	362	1706
16x2x1.3	29.1	413	1866
18x2x1.3	30.4	464	2005
20x2x1.3	32.2	515	2230
24x2x1.3	36.1	617	2833
30x2x1.3	38.2	771	3215
1x2x1.5	11.8	33	322
2x2x1.5	15.6	62	501
3x2x1.5	16.4	91	567
4x2x1.5	17.7	120	663
5x2x1.5	19.0	148	751
6x2x1.5	21.2	177	993
7x2x1.5	21.2	206	1032
8x2x1.5	23.4	235	1174
10x2x1.5	26.0	292	1395
12x2x1.5	27.4	350	1655
14x2x1.5	28.7	407	1819
16x2x1.5	30.0	465	1966
18x2x1.5	31.7	522	2195
20x2x1.5	34.1	580	2619
24x2x1.5	37.3	695	3019
30x2x1.5	39.3	867	3402
1x2x2.5	13.1	51	387
2x2x2.5	17.8	97	632
3x2x2.5	18.8	144	730
4x2x2.5	21.2	190	991
5x2x2.5	22.7	236	1131
6x2x2.5	24.5	283	1289
7x2x2.5	24.5	329	1351
8x2x2.5	27.8	373	1683
10x2x2.5	31.0	468	2013
12x2x2.5	32.2	560	2240
14x2x2.5	34.6	653	2743
16x2x2.5	36.3	746	2978

18x2x2.5	38.2	838	3254
20x2x2.5	40.1	931	3526
24x2x2.5	45.1	1116	4527
30x2x2.5	47.7	1394	5142

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