RE-Y(St)YSWAY(ö)



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. Additional oil and hydrocarbon resistance are achieved by its special design.

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
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	PVC (EN 50290-2-22)
Armour	Round Galvanized Steel Wire (Min. Diameter 0.90 mm ±0.02 mm)
Outer Sheath	UV Resisdant, Flame Retardant, Oil and Aliphatic Hydrocarbon Resistant, NBR/PVC, 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
Capacitance Unbalance (800 Hz)	≤500 pF/500m
Capacitance (@800Hz)	≤170 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 90 °C 168 hours (7x24)
Aliphatic Hydrocarbon Resistant	NF M 87-202
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	235
2x2x0.5	13.0	24	344
3x2x0.5	13.5	33	379
4x2x0.5	14.5	43	432
5x2x0.5	15.4	53	484
6x2x0.5	16.5	62	540
7x2x0.5	16.5	72	557
8x2x0.5	18.1	81	639
10x2x0.5	20.8	100	879
12x2x0.5	21.4	120	947
14x2x0.5	22.3	139	1022
16x2x0.5	23.3	158	1100
18x2x0.5	24.3	177	1188
20x2x0.5	25.6	196	1286
24x2x0.5	28.4	234	1625
30x2x0.5	29.9	292	1817
1x2x0.75	10.7	19	253
2x2x0.75	13.9	34	387
3x2x0.75	14.6	48	433
4x2x0.75	15.6	63	496
5x2x0.75	16.7	78	560
6x2x0.75	17.9	92	631
7x2x0.75	17.9	107	654
8x2x0.75	20.4	121	871
10x2x0.75	22.7	150	1029
12x2x0.75	23.3	179	1102
14x2x0.75	24.3	208	1202
16x2x0.75	25.5	238	1313
18x2x0.75	27.3	267	1554
20x2x0.75	28.5	296	1677
24x2x0.75	31.5	354	1985
30x2x0.75	34.0	441	2463
1x2x1	11.0	24	268
2x2x1	14.5	44	420
3x2x1	15.1	64	471
4x2x1	16.3	83	544
5x2x1	17.5	103	621
6x2x1	18.8	123	701
7x2x1	18.8	142	730
8x2x1	21.5	162	963
10x2x1	23.8	201	1140
12x2x1	24.4	241	1230
14x2x1	25.6	280	1351
16x2x1	27.4	319	1603
18x2x1	28.7	359	1746
20x2x1	30.1	398	1884

24x2x1	34.0	477	2468
30x2x1	35.7	594	2775
1x2x1.3	11.5	30	294
2x2x1.3	15.1	56	455
3x2x1.3	16.0	81	526
4x2x1.3	17.2	107	604
5x2x1.3	18.4	132	685
6x2x1.3	20.5	158	901
7x2x1.3	20.5	183	937
8x2x1.3	22.7	209	1085
10x2x1.3	25.3	260	1286
12x2x1.3	26.0	311	1391
14x2x1.3	27.7	362	1663
16x2x1.3	29.1	413	1819
18x2x1.3	30.4	464	1956
20x2x1.3	32.2	515	2176
24x2x1.3	36.1	617	2769
30x2x1.3	38.2	771	3144
1x2x1.5	11.8	33	308
2x2x1.5	15.6	62	481
3x2x1.5	16.4	91	547
4x2x1.5	17.7	120	640
5x2x1.5	19.0	148	725
6x2x1.5	21.2	177	963
7x2x1.5	21.2	206	1002
8x2x1.5	23.4	235	1140
10x2x1.5	26.0	292	1356
12x2x1.5	27.4	350	1612
14x2x1.5	28.7	407	1773
16x2x1.5	30.0	465	1917
18x2x1.5	31.7	522	2142
20x2x1.5	34.1	580	2560
24x2x1.5	37.3	695	2952
30x2x1.5	39.3	867	3330
1x2x2.5	13.1	51	372
2x2x2.5	17.8	97	608
3x2x2.5	18.8	144	705
4x2x2.5	21.2	190	961
5x2x2.5	22.7	236	1098
6x2x2.5	24.5	283	1253
7x2x2.5	24.5	329	1315
8x2x2.5	27.8	375	1640
10x2x2.5	31.0	468	1962
12x2x2.5	32.2	560	2187
14x2x2.5	34.6	653	2682
16x2x2.5	36.3	746	2913

18x2x2.5	38.2	838	3184
20x2x2.5	40.1	931	3451
24x2x2.5	45.1	1116	4438
30x2x2.5	47.7	1394	5043

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