RE-Y(St)Y(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. 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
Separator	PET Foil
Overall Screen	Al-PET Foil (with 7x0.3 mm Tinned Copper Drain Wire)
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
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)	≤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)	8 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	5.7	14	49
2x2x0.5	8.4	24	86

3x2x0.5	8.9	33	107
4x2x0.5	9.8	43	132
5x2x0.5	10.7	53	155
6x2x0.5	11.7	62	182
7x2x0.5	11.7	72	199
8x2x0.5	13.2	81	230
10x2x0.5	15.0	100	282
12x2x0.5	15.6	120	324
14x2x0.5	16.4	139	365
16x2x0.5	17.4	158	412
18x2x0.5	18.4	177	459
20x2x0.5	19.6	196	508
24x2x0.5	21.7	234	602
30x2x0.5	23.1	292	724
1x2x0.75	6.2	19	59
2x2x0.75	9.2	34	103
3x2x0.75	9.9	48	133
4x2x0.75	10.8	63	163
5x2x0.75	11.9	78	196
6x2x0.75	13.0	92	230
7x2x0.75	13.0	107	253
8x2x0.75	14.7	121	293
10x2x0.75	16.8	150	359
12x2x0.75	17.4	179	415
14x2x0.75	18.3	208	468
16x2x0.75	19.4	238	529
18x2x0.75	20.6	267	591
20x2x0.75	21.8	296	654
24x2x0.75	24.4	354	783
30x2x0.75	26.0	441	944
1x2x1	6.5	24	66
2x2x1	9.7	44	118
3x2x1	10.4	64	155
4x2x1	11.5	83	194
5x2x1	12.5	103	230
6x2x1	13.8	123	272
7x2x1	13.8	142	301
8x2x1	15.6	162	347
10x2x1	17.8	201	432
12x2x1	18.4	241	495
14x2x1	19.5	280	567
16x2x1	20.7	319	641
18x2x1	21.9	359	716
20x2x1	23.3	398	793
24x2x1	25.9	477	942
30x2x1	27.6	594	1148

1x2x1.3	7.0	30	77
2x2x1.3	10.4	56	139
3x2x1.3	11.1	81	180
4x2x1.3	12.3	107	226
5x2x1.3	13.5	132	275
6x2x1.3	14.8	158	323
7x2x1.3	14.8	183	359
8x2x1.3	16.8	209	415
10x2x1.3	19.2	260	516
12x2x1.3	19.9	311	593
14x2x1.3	21.0	362	681
16x2x1.3	22.3	413	769
18x2x1.3	23.6	464	860
20x2x1.3	25.1	515	952
24x2x1.3	28.0	617	1139
30x2x1.3	29.8	771	1381
1x2x1.5	7.2	33	82
2x2x1.5	10.8	62	149
3x2x1.5	11.6	91	196
4x2x1.5	12.8	120	247
5x2x1.5	14.0	148	296
6x2x1.5	15.3	177	349
7x2x1.5	15.3	206	389
8x2x1.5	17.5	235	454
10x2x1.5	20.0	292	564
12x2x1.5	20.7	350	650
14x2x1.5	21.9	407	745
16x2x1.5	23.2	465	842
18x2x1.5	24.6	522	941
20x2x1.5	26.1	580	1042
24x2x1.5	29.1	695	1246
30x2x1.5	31.0	867	1511
1x2x2.5	8.5	51	114
2x2x2.5	12.9	97	215
3x2x2.5	13.8	144	283
4x2x2.5	15.3	190	360
5x2x2.5	16.9	236	444
6x2x2.5	18.6	283	525
7x2x2.5	18.6	329	587
8x2x2.5	21.1	375	676
10x2x2.5	24.2	468	848
12x2x2.5	25.1	560	981
14x2x2.5	26.5	653	1126
16x2x2.5	28.1	746	1275
18x2x2.5	29.9	838	1434
20x2x2.5	31.7	931	1587

24x2x2.5	35.5	1116	1908
30x2x2.5	37.8	1394	2320

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