# 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

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|---|---|
| **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 |

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

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