# RE-Y(St)YSWAY-fI-PiMF/TiMF




## 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

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|---|---|
| **Conductor** | Stranded Annealed Copper (IEC/EN 60228, Class 2) |
| **Insulation** | PVC (EN 50290-2-21) |
| **Core Colors** | Pair: Black / White, Numbered Triples: Balck / White / Red, Numbered Quad: Black / White / Red / Blue, Numbered |
| **Separator** | PET Foil |
| **Individual Screen** | Al-PET Foil (with 0.60 mm Tinned Copper Drain Wire) |
| **Lay-up** | Shielded 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 Resistant, Flame Retardant PVC (EN 50290-2-22 ), RAL 9005 - Black, RAL 5015 - Blue (other colors upon request) |
| **Reference Standards** | BS/EN 50288-7 |

## Technical Properties

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|---|---|
| **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)** | ≤220 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 | Cable Diameter (mm) (± 5%) | Copper Weight (kg / km) | ~ Cable Weight (kg / km) |
|---|---|---|---|

| (mm/mm²) | | | |
|---|---|---|---|
| 1x2x0.5 | 6.6 | 14 | 219 |
| 2x2x0.5 | 10.2 | 29 | 372 |
| 3x2x0.5 | 10.7 | 42 | 422 |
| 4x2x0.5 | 11.8 | 54 | 488 |
| 5x2x0.5 | 12.8 | 66 | 543 |
| 6x2x0.5 | 13.9 | 78 | 614 |
| 7x2x0.5 | 13.9 | 91 | 636 |
| 8x2x0.5 | 15.6 | 103 | 846 |
| 10x2x0.5 | 17.7 | 127 | 1005 |
| 12x2x0.5 | 18.3 | 152 | 1087 |
| 14x2x0.5 | 19.2 | 177 | 1174 |
| 16x2x0.5 | 20.4 | 201 | 1283 |
| 18x2x0.5 | 21.5 | 226 | 1517 |
| 20x2x0.5 | 22.8 | 250 | 1648 |
| 24x2x0.5 | 25.3 | 299 | 1945 |
| 30x2x0.5 | 26.8 | 373 | 2436 |
| 1x2x0.75 | 7.1 | 19 | 238 |
| 2x2x0.75 | 11.1 | 39 | 424 |
| 3x2x0.75 | 11.8 | 57 | 487 |
| 4x2x0.75 | 12.8 | 74 | 550 |
| 5x2x0.75 | 14.1 | 91 | 626 |
| 6x2x0.75 | 15.4 | 108 | 837 |
| 7x2x0.75 | 15.4 | 126 | 866 |
| 8x2x0.75 | 17.3 | 143 | 996 |
| 10x2x0.75 | 19.6 | 177 | 1171 |
| 12x2x0.75 | 20.3 | 212 | 1273 |
| 14x2x0.75 | 21.4 | 246 | 1520 |
| 16x2x0.75 | 22.7 | 281 | 1662 |
| 18x2x0.75 | 23.9 | 315 | 1783 |
| 20x2x0.75 | 25.3 | 350 | 1988 |
| 24x2x0.75 | 28.2 | 419 | 2562 |
| 30x2x0.75 | 29.9 | 523 | 2845 |
| 1x2x1 | 7.4 | 24 | 253 |
| 2x2x1 | 11.7 | 49 | 458 |
| 3x2x1 | 12.4 | 72 | 526 |
| 4x2x1 | 13.6 | 94 | 608 |
| 5x2x1 | 14.8 | 117 | 691 |
| 6x2x1 | 16.3 | 139 | 918 |
| 7x2x1 | 16.3 | 161 | 953 |
| 8x2x1 | 18.3 | 184 | 1087 |
| 10x2x1 | 20.7 | 228 | 1293 |
| 12x2x1 | 21.5 | 273 | 1535 |
| 14x2x1 | 22.7 | 318 | 1689 |
| 16x2x1 | 23.9 | 363 | 1822 |
| 18x2x1 | 25.3 | 407 | 2039 |
| 20x2x1 | 26.8 | 452 | 2439 |

| | | | |
|---|---|---|---|
| 24x2x1 | 29.9 | 541 | 2816 |
| 30x2x1 | 31.7 | 676 | 3165 |
| 1x2x1.3 | 7.8 | 30 | 279 |
| 2x2x1.3 | 12.4 | 61 | 505 |
| 3x2x1.3 | 13.1 | 89 | 572 |
| 4x2x1.3 | 14.4 | 118 | 671 |
| 5x2x1.3 | 15.8 | 146 | 895 |
| 6x2x1.3 | 17.3 | 174 | 1016 |
| 7x2x1.3 | 17.3 | 202 | 1057 |
| 8x2x1.3 | 19.5 | 231 | 1201 |
| 10x2x1.3 | 22.2 | 287 | 1580 |
| 12x2x1.3 | 23.1 | 344 | 1707 |
| 14x2x1.3 | 24.2 | 400 | 1869 |
| 16x2x1.3 | 25.7 | 456 | 2084 |
| 18x2x1.3 | 27.3 | 513 | 2535 |
| 20x2x1.3 | 28.9 | 569 | 2723 |
| 24x2x1.3 | 32.1 | 682 | 3167 |
| 30x2x1.3 | 34.2 | 852 | 3952 |
| 1x2x1.5 | 8.1 | 33 | 293 |
| 2x2x1.5 | 12.8 | 68 | 522 |
| 3x2x1.5 | 13.6 | 99 | 604 |
| 4x2x1.5 | 14.9 | 131 | 698 |
| 5x2x1.5 | 16.4 | 162 | 937 |
| 6x2x1.5 | 18.0 | 193 | 1062 |
| 7x2x1.5 | 18.0 | 225 | 1107 |
| 8x2x1.5 | 20.2 | 256 | 1275 |
| 10x2x1.5 | 23.1 | 319 | 1661 |
| 12x2x1.5 | 23.8 | 382 | 1807 |
| 14x2x1.5 | 25.1 | 445 | 2023 |
| 16x2x1.5 | 26.6 | 508 | 2211 |
| 18x2x1.5 | 28.2 | 571 | 2655 |
| 20x2x1.5 | 29.8 | 634 | 2883 |
| 24x2x1.5 | 33.4 | 760 | 3728 |
| 30x2x1.5 | 35.4 | 948 | 4199 |
| 1x2x2.5 | 9.3 | 51 | 358 |
| 2x2x2.5 | 15.1 | 103 | 659 |
| 3x2x2.5 | 16.0 | 152 | 896 |
| 4x2x2.5 | 17.6 | 201 | 1045 |
| 5x2x2.5 | 19.4 | 250 | 1209 |
| 6x2x2.5 | 21.4 | 299 | 1510 |
| 7x2x2.5 | 21.4 | 348 | 1579 |
| 8x2x2.5 | 24.1 | 397 | 1817 |
| 10x2x2.5 | 27.6 | 495 | 2478 |
| 12x2x2.5 | 28.6 | 593 | 2701 |
| 14x2x2.5 | 30.1 | 691 | 2945 |
| 16x2x2.5 | 31.9 | 789 | 3236 |

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|---|---|---|---|
| 18x2x2.5 | 33.9 | 887 | 3933 |
| 20x2x2.5 | 35.9 | 985 | 4239 |
| 24x2x2.5 | 40.2 | 1181 | 4944 |
| 30x2x2.5 | 42.8 | 1475 | 6088 |

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