

RE-Y(St)Y TIMF

CU/PVC/ISCR/OSCR/PVC



Flame Retardant and UV Resistant / Instrumentation Control Cable

Construction

| | |
|-------------------|---|
| Conductor: | Plain annealed stranded copper wires (IEC/BS/E 60228, VDE 0295 Class 2) |
| Insulation: | PVC (BS/EN 50290-2, VDE 0207 Y11) |
| Colour code: | Pair: Black / white , numbered ; Triple: Black/white/red, numbered |
| Lay-up | Pairs/Triples are stranded in layers |
| Individual Screen | PES TAPE; TINNED COPPER DRAIN WIRE; AL-PES TAPE |
| Overall Shielding | 24 μ m aluminum / PETP tape over 7-stranded tinned copper drain wire, 0.5 mm ² |
| Outer Sheath: | UV resistant, Flame retardant PVC (BS/EN 50290-2, VDE 0207 YM1, thickness VDE 0816-2), Black or Blue (RAL 5015) [other colors upon request] |
| sheath colour: | Blue Ral 5005 |

APPLICATION

Cable with protective screen against electromagnetic impacts, for reliable and quick (up to 200 kB/s) transmission of analogue and digital signals, suitable for fixed and mobile installations in process control and data processing systems, mostly in chemical and petrochemical industrial plants and electric power plants. Low values of signal attenuation and low mutual capacitance enable large-distance signal transmission. Laid in dry and damp premises, also outdoor, in air or ground. Not intended for supply purposes



NOTES

RE Instrumentation Cable

Fl*: Flame retardant outer sheath

Yv*: Reinforced sheath version available on request

Ral 5015 blue sheath*: At ex-proof connections in explosive and in flammable environments, intrinsically safe

Ral 9005 black sheath*: Places where UV resistance is required

Ral 7032 grey sheath*: Inside of buildings

Technical data

| Conductor Resistance class2(Max) | Insulation Resistance (Min) | Insulation Thickness (Nom) | MUTUAL CAPACITY (Max) | Temperature Range | Flame Propagation |
|----------------------------------|-----------------------------|----------------------------|-----------------------|-------------------|---|
| mm ² | Ω /km | M Ω xKm | mm ² | pF/m | |
| 0.5 | 36 | | 0.5 | -30°C~+70°C | IEC 60332-3-24 VDE 0482-332-3-2 EN 60332-3-24 BS EN 60332-3-24 |
| 0.75 | 24.5 | | 0.6 | (FIXED LAYING) | |
| 1.0 | 18.1 | 100 | 0.6 | 250 | |
| 1.5 | 12.1 | | 0.6 | | |
| 2.5 | 7.41 | | 0.7 | | |

| L/R(Ratio) (Max) | Current Load(25°C) | Operating Voltage | Test Voltage | Bending Radius |
|------------------|--------------------|-------------------|--------------|--|
| mm ² | μ H/ Ω | mm ² | A | |
| 0.5 | 25 | 0.5 | 6 | 300/500V Cr./Cr.=2000 V Cr./Scr.=2000 V 7,5 X Cable Ø |
| 0.75 | 25 | 0.75 | 13 | |
| 1.0 | 25 | 1.0 | 16 | |
| 1.5 | 40 | 1.5 | 20 | |
| 2.5 | 60 | 2.5 | 25 | |

Temperature Range Fixed -40 °C to+70 °C ; During Installation -5 °C -+50 °C

Flame Test IEC/EN/BS/DIN 60332-1-2 (VDE 0482-332-1-2)

Design Standards

IEC 60092-376
EN 50288-7
DIN VDE 819-7

RE-Y(St)Y TIMF (0.5-2.5)

CU/PVC/ISCR/OSCR/PVC

| Code No. | No. of cores N x mm ² | External diameter approx. mm | Insulation thickness nominal mm | Cable weight approx. kg/km | Packing* |
|----------------------------|-------------------------------------|------------------------------------|---------------------------------------|----------------------------------|----------|
| Cross Section :0.5 | | | | | |
| 3815 | 1 | 7.1 | 0.6 | 65 | CUT |
| 3825 | 2 | 11.6 | 0.6 | 125 | CUT |
| 3835 | 3 | 12.3 | 0.6 | 160 | CUT |
| 3845 | 4 | 13.7 | 0.6 | 205 | CUT |
| 3855 | 5 | 15.0 | 0.6 | 250 | CUT |
| 3865 | 6 | 16.6 | 0.6 | 295 | CUT |
| 3875 | 7 | 16.6 | 0.6 | 330 | CUT |
| 38105 | 10 | 21.4 | 0.6 | 465 | CUT |
| 38125 | 12 | 22.1 | 0.6 | 540 | CUT |
| 38165 | 16 | 24.8 | 0.6 | 700 | CUT |
| 38205 | 20 | 27.9 | 0.6 | 870 | CUT |
| 38245 | 24 | 31.2 | 0.6 | 1040 | CUT |
| 38305 | 30 | 33.3 | 0.6 | 1275 | CUT |
| Cross Section :0.75 | | | | | |
| 3817 | 1 | 7.5 | 0.6 | 75 | CUT |
| 3827 | 2 | 12.4 | 0.6 | 145 | CUT |
| 3837 | 3 | 13.4 | 0.6 | 200 | CUT |
| 3847 | 4 | 14.7 | 0.6 | 250 | CUT |
| 3857 | 5 | 16.4 | 0.6 | 310 | CUT |
| 3867 | 6 | 17.9 | 0.6 | 360 | CUT |
| 3877 | 7 | 17.9 | 0.6 | 405 | CUT |
| 38107 | 10 | 23.2 | 0.6 | 580 | CUT |
| 38127 | 12 | 24.1 | 0.6 | 675 | CUT |
| 38167 | 16 | 27.0 | 0.6 | 880 | CUT |
| 38207 | 20 | 30.4 | 0.6 | 1090 | CUT |
| 38247 | 24 | 33.9 | 0.6 | 1305 | CUT |
| 38307 | 30 | 36.2 | 0.6 | 1600 | CUT |
| Cross Section :1.0 | | | | | |
| 38110 | 1 | 7.9 | 0.6 | 90 | CUT |
| 38210 | 2 | 13.4 | 0.6 | 175 | CUT |
| 38310 | 3 | 14.2 | 0.6 | 230 | CUT |
| 38410 | 4 | 15.6 | 0.6 | 290 | CUT |
| 38510 | 5 | 17.3 | 0.6 | 360 | CUT |
| 38610 | 6 | 19.0 | 0.6 | 420 | CUT |
| 38710 | 7 | 19.0 | 0.6 | 475 | CUT |
| 381010 | 10 | 24.7 | 0.6 | 680 | CUT |
| 381210 | 12 | 25.6 | 0.6 | 795 | CUT |
| 381610 | 16 | 28.7 | 0.6 | 1040 | CUT |
| 382010 | 20 | 32.3 | 0.6 | 1290 | CUT |
| 382410 | 24 | 36.3 | 0.6 | 1550 | CUT |
| 383010 | 30 | 38.5 | 0.6 | 1890 | CUT |

| Code No. | No. of cores N x mm ² | External diameter approx. mm | Insulation thickness nominal mm | Cable weight approx. kg/km | Packing* |
|---------------------------|-------------------------------------|------------------------------------|---------------------------------------|----------------------------------|----------|
| Cross Section :1.5 | | | | | |
| 38115 | 1 | 8.6 | 0.6 | 110 | CUT |
| 38215 | 2 | 14.6 | 0.6 | 215 | CUT |
| 38315 | 3 | 15.5 | 0.6 | 295 | CUT |
| 38415 | 4 | 17.3 | 0.6 | 380 | CUT |
| 38515 | 5 | 19.0 | 0.6 | 460 | CUT |
| 38615 | 6 | 21.0 | 0.6 | 550 | CUT |
| 38715 | 7 | 21.0 | 0.6 | 620 | CUT |
| 381015 | 10 | 27.4 | 0.6 | 895 | CUT |
| 381215 | 12 | 28.3 | 0.6 | 1045 | CUT |
| 381615 | 16 | 31.8 | 0.6 | 1365 | CUT |
| 382015 | 20 | 36.0 | 0.6 | 1705 | CUT |
| 382415 | 24 | 40.2 | 0.6 | 2040 | CUT |
| 383015 | 30 | 42.8 | 0.6 | 2510 | CUT |
| Cross Section :2.5 | | | | | |
| 38125 | 1 | 10.1 | 0.7 | 155 | CUT |
| 38225 | 2 | 17.3 | 0.7 | 310 | CUT |
| 38325 | 3 | 18.5 | 0.7 | 420 | CUT |
| 38425 | 4 | 20.5 | 0.7 | 550 | CUT |
| 38525 | 5 | 22.8 | 0.7 | 675 | CUT |
| 38625 | 6 | 25.0 | 0.7 | 800 | CUT |
| 38725 | 7 | 25.0 | 0.7 | 905 | CUT |
| 381025 | 10 | 32.8 | 0.7 | 1310 | CUT |
| 381225 | 12 | 34.0 | 0.7 | 1535 | CUT |
| 381625 | 16 | 38.3 | 0.7 | 2025 | CUT |
| 382025 | 20 | 43.1 | 0.7 | 2515 | CUT |
| 382425 | 24 | 48.3 | 0.7 | 3025 | CUT |
| 383025 | 30 | 51.5 | 0.7 | 3720 | CUT |

*) Packing: CUT = cable in different lengths on drum or reel, possible cutting at required length`