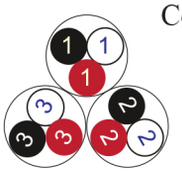
# RE-2X(St)Y

## Fire Resistant

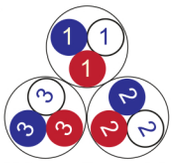
**EN 50288-7 (500 V)**

| | |
|---|---|
| Conductor | Stranded (class 2) Plain annealed copper wires |

Color Coding (Options) :

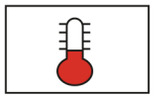


Black,White,Red (Numbered)



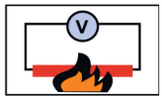
Blue,White,Red (Numbered)

| | |
|---|---|
| Insulation | Mica-glass Tape + XLPE |
| Cable Unit | Triple (Multi-Triple Cable) |
| Collective (Overall ) Screen | Polyester tape + Drain wire (Tinned copper) + Al.Polyester Tape |
| Outer Sheath | Extruded PVC |



+90 °C

IEC 60332-1




IEC 60331


7.5 x O.D

Screened

| | Criteria | Standard Values | | | | | Unit |
|---|---|---|---|---|---|---|---|
| Conductor cross section | Nominal | 0.5 | 0.75 | 1 | 1.5 | 2.5 | mm² |
| Conductor DC Resistance @ 20°C | max. | 36.7 | 25.0 | 18.5 | 12.3 | 7.4 | Ohm/kM |
| Insulation resistance | min. | 1000 | | | | | MOhm x km |
| Mutual capacitance | max. | 150 | | | | | nF/km |
| Capacitance unbalance | max. | 500 | | | | | pF/500m |
| L/R (ratio) | max. | 25 | 25 | 25 | 40 | 60 | microH/ Ohm |
| Test voltage : core to core / core to screen | for 1 minute | 2.0 kV A.C or 3.0 kV D.C | | | | | K.V |
| Operating voltage U(rms) | | 500 | | | | | V |

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| Nominal cross section area of conductor | Insulation thickness | Sheath thickness | Overall Diameter | Weight | Standard Packing Length |
|---|---|---|---|---|---|
| mm² | mm | mm | mm | Kg/Km | meter |
| Conductor : 0.5 mm² (7x0.3 mm) | | | | | |
| 1x3x0.5 | 0.6 | 0.9 | 7.7 | 59 | 1000 |
| 2x3x0.5 | 0.6 | 1.0 | 11.9 | 107 | 1000 |
| 3x3x0.5 | 0.6 | 1.0 | 12.7 | 138 | 1000 |
| 4x3x0.5 | 0.6 | 1.1 | 14.2 | 177 | 1000 |
| 5x3x0.5 | 0.6 | 1.1 | 15.5 | 211 | 1000 |
| 6x3x0.5 | 0.6 | 1.1 | 16.9 | 246 | 1000 |
| 7x3x0.5 | 0.6 | 1.1 | 16.9 | 275 | 1000 |
| 10x3x0.5 | 0.6 | 1.3 | 22.2 | 397 | 1000 |
| 12x3x0.5 | 0.6 | 1.3 | 22.9 | 459 | 1000 |
| 16x3x0.5 | 0.6 | 1.4 | 25.7 | 595 | 500 |
| 20x3x0.5 | 0.6 | 1.5 | 29.0 | 737 | 500 |
| 24x3x0.5 | 0.6 | 1.6 | 32.4 | 881 | 500 |
| 30x3x0.5 | 0.6 | 1.6 | 34.4 | 1065 | 500 |
| Conductor : 0.75 mm² (7x0.37 mm) | | | | | |
| 1x3x0.75 | 0.6 | 0.9 | 8.1 | 70 | 1000 |
| 2x3x0.75 | 0.6 | 1.0 | 12.7 | 128 | 1000 |
| 3x3x0.75 | 0.6 | 1.1 | 13.7 | 174 | 1000 |
| 4x3x0.75 | 0.6 | 1.1 | 15.1 | 218 | 1000 |
| 5x3x0.75 | 0.6 | 1.1 | 16.6 | 262 | 1000 |
| 6x3x0.75 | 0.6 | 1.2 | 18.3 | 313 | 1000 |
| 7x3x0.75 | 0.6 | 1.2 | 18.3 | 351 | 1000 |
| 10x3x0.75 | 0.6 | 1.3 | 23.7 | 497 | 1000 |
| 12x3x0.75 | 0.6 | 1.4 | 24.8 | 586 | 500 |
| 16x3x0.75 | 0.6 | 1.5 | 27.8 | 762 | 500 |
| 20x3x0.75 | 0.6 | 1.5 | 31.1 | 931 | 500 |
| 24x3x0.75 | 0.6 | 1.7 | 35.0 | 1127 | 500 |
| 30x3x0.75 | 0.6 | 1.7 | 37.1 | 1367 | 500 |

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## Fire Resistant

## EN 50288-7 (500 V)

| Nominal cross section area of conductor | Insulation thickness | Sheath thickness | Overall Diameter | Weight | Standard Packing Length |
|---|---|---|---|---|---|
| $mm^2$ | mm | mm | mm | Kg/Km | meter |
| Conductor : 1.0 $mm^2$ (7x0.43 mm) | | | | | |
| 1x3x1 | 0.6 | 0.9 | 8.5 | 80 | 1000 |
| 2x3x1 | 0.6 | 1.0 | 13.4 | 148 | 1000 |
| 3x3x1 | 0.6 | 1.1 | 14.5 | 204 | 1000 |
| 4x3x1 | 0.6 | 1.1 | 15.9 | 256 | 1000 |
| 5x3x1 | 0.6 | 1.2 | 17.7 | 316 | 1000 |
| 6x3x1 | 0.6 | 1.2 | 19.3 | 370 | 1000 |
| 7x3x1 | 0.6 | 1.2 | 19.3 | 417 | 1000 |
| 10x3x1 | 0.6 | 1.4 | 25.3 | 600 | 500 |
| 12x3x1 | 0.6 | 1.4 | 26.2 | 698 | 500 |
| 16x3x1 | 0.6 | 1.5 | 29.4 | 911 | 500 |
| 20x3x1 | 0.6 | 1.6 | 33.1 | 1129 | 500 |
| 24x3x1 | 0.6 | 1.7 | 37.0 | 1351 | 500 |
| 30x3x1 | 0.6 | 1.8 | 39.5 | 1659 | 500 |
| Conductor : 1.5 $mm^2$ (7x0.53 mm) | | | | | |
| 1x3x1.5 | 0.6 | 0.9 | 9.2 | 100 | 1000 |
| 2x3x1.5 | 0.6 | 1.1 | 14.7 | 194 | 1000 |
| 3x3x1.5 | 0.6 | 1.1 | 15.7 | 262 | 1000 |
| 4x3x1.5 | 0.6 | 1.2 | 17.5 | 340 | 1000 |
| 5x3x1.5 | 0.6 | 1.2 | 19.2 | 412 | 1000 |
| 6x3x1.5 | 0.6 | 1.3 | 21.2 | 492 | 1000 |
| 7x3x1.5 | 0.6 | 1.3 | 21.2 | 556 | 1000 |
| 10x3x1.5 | 0.6 | 1.5 | 27.7 | 799 | 500 |
| 12x3x1.5 | 0.6 | 1.5 | 28.7 | 932 | 500 |
| 16x3x1.5 | 0.6 | 1.6 | 32.2 | 1219 | 500 |
| 20x3x1.5 | 0.6 | 1.7 | 36.3 | 1511 | 500 |
| 24x3x1.5 | 0.6 | 1.8 | 40.5 | 1808 | 500 |
| 30x3x1.5 | 0.6 | 1.9 | 43.3 | 2225 | 500 |

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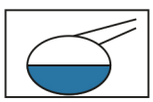
| Nominal cross section area of conductor | Insulation thickness | Sheath thickness | Overall Diameter | Weight | Standard Packing Length |
|---|---|---|---|---|---|
| $mm^2$ | mm | mm | mm | Kg/Km | meter |
| Conductor : 2.5 $mm^2$ (7x0.67 mm) | | | | | |
| 1x3x2.5 | 0.7 | 1.0 | 10.7 | 143 | 1000 |
| 2x3x2.5 | 0.7 | 1.2 | 17.2 | 278 | 1000 |
| 3x3x2.5 | 0.7 | 1.2 | 18.4 | 381 | 1000 |
| 4x3x2.5 | 0.7 | 1.3 | 20.5 | 494 | 1000 |
| 5x3x2.5 | 0.7 | 1.3 | 22.5 | 602 | 1000 |
| 6x3x2.5 | 0.7 | 1.4 | 24.9 | 719 | 500 |
| 7x3x2.5 | 0.7 | 1.4 | 24.9 | 816 | 500 |
| 10x3x2.5 | 0.7 | 1.6 | 32.6 | 1171 | 500 |
| 12x3x2.5 | 0.7 | 1.7 | 33.9 | 1385 | 500 |
| 16x3x2.5 | 0.7 | 1.8 | 38.0 | 1812 | 500 |
| 20x3x2.5 | 0.7 | 1.9 | 42.8 | 2247 | 500 |
| 24x3x2.5 | 0.7 | 2.1 | 48.1 | 2706 | 500 |
| 30x3x2.5 | 0.7 | 2.2 | 51.3 | 3330 | 250 |

## Additional Options (by request)

A) Based on "PVC" Sheath

Reduced smoke PVC
Tested acc to ASTM E662 &
Improved Flame Retardant
acc to IEC 60332-3



Oil & Chemical
Resistant PVC Sheath
Acc to ICEA S-82-552
(Equal to NEMA WC55)

UV Resistant PVC Sheath
Acc to UL 1581-1200

B) Based on "Halogen Free" Construction

Cable Type : RE-2X(St)H


Low Halogen Acid & Gas
acc to IEC 60754-1&2
IEC 60502 ST8

Low smoke
Acc to IEC 61034