

# 541 JB-Y(St)Y PVC - FIRE ALARM CABLE

**Application** These cables are designed for signal transmission in fire detection systems. For fixed installation on and under plaster, in dry and damp rooms but also in the open air for fixed installation on outer walls of buildings.



## Construction

| Item         | Inner Conductor |                      | Construction (Approx.) | Diameter mm | Insulation Color       | Shield               | Jacket |                       | Weight kg / km |
|--------------|-----------------|----------------------|------------------------|-------------|------------------------|----------------------|--------|-----------------------|----------------|
|              | Cores Section   |                      |                        |             |                        |                      | Color  | Diameter (Approx.) mm |                |
|              | Nr / Ø mm       | Nr / mm <sup>2</sup> |                        |             |                        |                      |        |                       |                |
| <b>I500B</b> | 1 x 2 x 0,80    | 1 x 2 x 0,50         | 1 x 0,80               | 1,55        | Red - Black            | Aluminium / PET foil | Red    | 4,30                  | 24,0           |
| <b>I515B</b> | 1 x 4 x 0,80    | 1 x 4 x 0,50         | 1 x 0,80               | 1,55        | Red-Black-White-Yellow | +                    |        | 5,10                  | 37,0           |
| <b>I501B</b> | 2 x 2 x 0,80    | 2 x 2 x 0,50         | 1 x 0,80               | 1,55        | Red-Black-White-Yellow | Tinned Copper, Solid |        | 6,50                  | 42,0           |
| <b>I513B</b> | 1 x 2 x 1,00    | 1 x 2 x 0,80         | 1 x 1,00               | 1,90        | Red - Black            |                      |        | 5,20                  | 38,6           |
| <b>I514B</b> | 1 x 2 x 1,13    | 1 x 2 x 1,00         | 1 x 1,13               | 2,10        | Red - Black            |                      |        | 5,60                  | 44,0           |
| <b>I516B</b> | 1 x 2 x 1,50    | 1 x 2 x 1,80         | 1 x 1,50               | 2,90        | Red - Black            |                      |        | 7,40                  | 70,8           |

## Technical Data

|                 |  |                                  |                    |                   |
|-----------------|--|----------------------------------|--------------------|-------------------|
| Inner Conductor | Bare Copper, Solid                     | Peak Operating Voltage           | Volt               | 300               |
| Insulation      | Polyvinylchloride (PVC) TI2 (YI2)      | (Not for purposes of Power)      |                    |                   |
| Identification  | Colored                                | Operating Voltage U <sub>o</sub> | Volt               | 500               |
| Cabling         | Conductors cabled in concentric layers | Test Voltage                     | Volt               | 800               |
|                 | I515B - Starquad                       | Insulation Resistance            | MOhm / km          | > 100             |
|                 | I501B - Pairs                          | Temperature Range                | Fixed Installation | - 15 °C / + 70 °C |
| Taping          | Polyester foil                         | Min. Bending Radius              | Fixed Installation | 10 x Diameter     |
| Shield          | Aluminium / PET foil                   |                                  |                    |                   |
| Drain Wire      | Tinned Copper, Solid                   |                                  |                    |                   |
| Jacket          | Polyvinylchloride (PVC) TM2 (YM2)      |                                  |                    |                   |

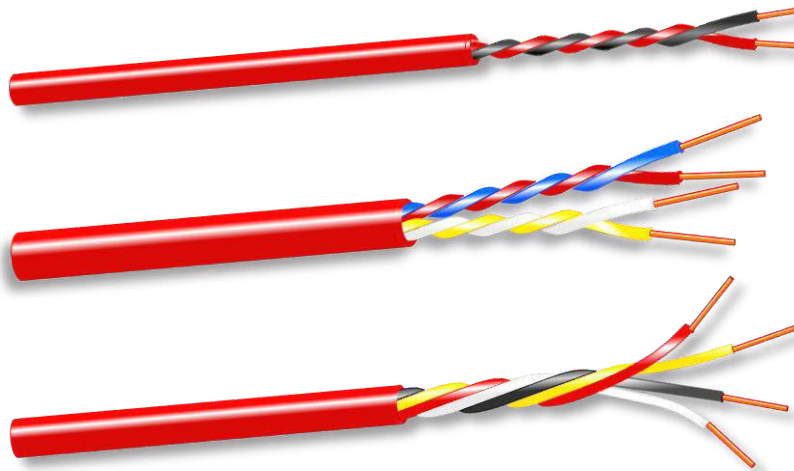
|                            |                 |             |             |             |             |
|----------------------------|-----------------|-------------|-------------|-------------|-------------|
| Diameter                   | mm              | <b>0,80</b> | <b>1,00</b> | <b>1,13</b> | <b>1,50</b> |
| Section                    | mm <sup>2</sup> | <b>0,50</b> | <b>0,80</b> | <b>1,00</b> | <b>1,80</b> |
| Inner Conductor Resistance | Ohm / km        | 34,50       | 22,00       | 17,20       | 9,80        |
| Conductor Loop Resistance  | Ohm / km        | 69,00       | 44,00       | 34,40       | 19,60       |

## Standards

|                 |                |
|-----------------|----------------|
| Inner Conductor | EN 60228 Cl. 1 |
| Insulation      | EN 50363-3     |
| Identification  | DIN VDE 0815   |
| Jacket          | EN 50363-4-1   |
| Fire behaviour  | IEC 60332-1-2  |

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| Item           | Cores Section<br>Nr / Ø mm | Inner Conductor        |                                     | Diameter<br>mm | Insulation             |       | Jacket                   |      | Weight<br>kg / km |
|----------------|----------------------------|------------------------|-------------------------------------|----------------|------------------------|-------|--------------------------|------|-------------------|
|                |                            | Nr / Ø mm <sup>2</sup> | Construction (Approx.)<br>Nr / Ø mm |                | Color                  | Color | Diameter (Approx.)<br>mm |      |                   |
| <b>I500NSB</b> | 1 x 2 x 0,80               | 1 x 2 x 0,50           | 1 x 0,80                            | 1,55           | Red - Black            | Red   | 4,30                     | 24,0 |                   |
| <b>I501NSB</b> | 1 x 4 x 0,80               | 1 x 4 x 0,50           | 1 x 0,80                            | 1,55           | Red-Black-White-Yellow |       | 5,10                     | 37,0 |                   |
| <b>I515NSB</b> | 2 x 2 x 0,80               | 2 x 2 x 0,50           | 1 x 0,80                            | 1,55           | Red-Black-White-Yellow |       | 6,50                     | 42,0 |                   |
| <b>I513NSB</b> | 1 x 2 x 1,00               | 1 x 2 x 0,80           | 1 x 1,00                            | 1,90           | Red - Black            |       | 5,20                     | 38,6 |                   |
| <b>I516NSB</b> | 1 x 2 x 1,50               | 1 x 2 x 1,80           | 1 x 1,50                            | 2,90           | Red - Black            |       | 7,40                     | 70,8 |                   |

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|                            |                 |             |             |             |             |
|----------------------------|-----------------|-------------|-------------|-------------|-------------|
| Diameter                   | mm              | <b>0,80</b> | <b>1,00</b> | <b>1,13</b> | <b>1,50</b> |
| Section                    | mm <sup>2</sup> | <b>0,50</b> | <b>0,80</b> | <b>1,00</b> | <b>1,80</b> |
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