

1502R Multi-Conductor - Multimedia Control Cable

For more Information
please call

1-800-Belden1



General Description:

22 AWG stranded (7x30) TC conductors, FPE insulation (data), STP (Data) w/Beldfoil®, TC drain wire, 18 AWG (16x30) TC conductors, unshielded (power) pair, F-R PVC insulation (power), F-R PVC Jacket (Available in Black, White, or Aqua)

Physical Characteristics (Overall)

Conductor

AWG:

| # Conductors | # Pairs | AWG | Stranding | Conductor Material |
|--------------|---------|-----|-----------|--------------------|
| 2 | 1 | 22 | 7x30 | TC - Tinned Copper |
| | 1 | 18 | 16x30 | TC - Tinned Copper |

Total Number of Conductors: 4

Insulation

Insulation Material:

| Insulation Trade Name | Insulation Material | Wall Thickness (mm) | AWG |
|-----------------------|--|---------------------|-----|
| Datalene® | HDFPE - High Density Foam Polyethylene | 0.635 | 22 |
| | F-R PVC - Flame Retardant Polyvinyl Chloride | 0.3302 | 18 |

Inner Shield

Inner Shield Material:

| Layer # | Inner Shield Trade Name | Type | Inner Shield Material | Coverage (%) | Stranding | Dia. (mm) | Conductor Material |
|-------------|-------------------------|------|------------------------------|--------------|-----------|-----------|--------------------|
| 22 AWG Pair | Beldfoil® | Tape | Aluminum Foil-Polyester Tape | 100 | | | |

Inner Shield Drain Wire AWG:

| AWG | Stranding | Conductor Material |
|--------|-----------|--------------------|
| 24 AWG | 7x32 | TC - Tinned Copper |

Outer Shield

Outer Shield Material:

| Outer Shield Material |
|-----------------------|
| Unshielded |

Outer Jacket

Outer Jacket Material:

| Outer Jacket Material |
|--|
| F-R PVC - Flame Retardant Polyvinyl Chloride |

Outer Jacket Ripcord: Yes

Overall Cable

Overall Nominal Diameter: 6.350 mm

Pair

Pair Color Code Chart:

| Number | Color |
|--------|--------------|
| 1 | Blue & White |
| 2 | Red & Black |

Mechanical Characteristics (Overall)

Operating Temperature Range: -20°C To +75°C

1502R Multi-Conductor - Multimedia Control Cable

| | |
|-----------------------------------|--------------|
| Non-UL Temperature Rating: | 75°C |
| Bulk Cable Weight: | 59.528 Kg/Km |
| Max. Recommended Pulling Tension: | 266.002 N |
| Min. Bend Radius/Minor Axis: | 63.500 mm |

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

| | |
|---------------------------------------|------------|
| NEC/(UL) Specification: | CMR |
| CEC/C(UL) Specification: | CMG |
| EU Directive 2011/65/EU (ROHS II): | Yes |
| EU CE Mark: | Yes |
| EU Directive 2000/53/EC (ELV): | Yes |
| EU Directive 2002/95/EC (RoHS): | Yes |
| EU RoHS Compliance Date (mm/dd/yyyy): | 04/01/2005 |
| EU Directive 2002/96/EC (WEEE): | Yes |
| EU Directive 2003/11/EC (BFR): | Yes |
| CA Prop 65 (CJ for Wire & Cable): | Yes |
| MII Order #39 (China RoHS): | Yes |

Flame Test

| | |
|-----------------|-----------------------|
| UL Flame Test: | UL1666 Vertical Shaft |
| CSA Flame Test: | FT4 |

Plenum/Non-Plenum

| | |
|----------------|-------|
| Plenum (Y/N): | No |
| Plenum Number: | 1502P |

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

| Description | Impedance (Ohm) |
|-------------|-----------------|
| 22 AWG Pair | 100 |

Nom. Inductance:

| Description | Inductance (µH/m) |
|-------------|-------------------|
| 22 AWG | 0.761192 |
| 18 AWG | 0.551208 |

Nom. Capacitance Conductor to Conductor:

| Description | Capacitance (pF/m) |
|-------------|--------------------|
| 22 AWG Pair | 45.934 |
| 18 AWG Pair | 95.149 |

Nom. Capacitance Cond. to Other Conductor & Shield:

| Description | Freq. (MHz) | Start Freq. (MHz) | Stop Freq. (MHz) | Capacitance (pF/m) |
|-------------|-------------|-------------------|------------------|--------------------|
| 22 AWG Pair | | | | 124.678 |

Nom. Conductor DC Resistance:

| Description | DCR @ 20°C (Ohm/km) |
|-------------|---------------------|
| 22 AWG | 53.4803 |
| 18 AWG | 22.6389 |

Max. Operating Voltage - UL:

| Voltage |
|-----------|
| 300 V RMS |

Max. Recommended Current:

Current

1502R Multi-Conductor - Multimedia Control Cable

3.8 Amps per conductor @ 25°C (22 AWG); 7.2 Amps per conductor @ 25°C (18 AWG)

Notes (Overall)

Notes: Sequential footage marking every two feet.

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|----------------|-----------|-------------|-------|-------|--------------------------------|
| 1502R G751000 | 1,000 FT | 44.000 LB | AQUA | C | 2 #18 PVC +2 FS #22 FHDPEFRPVC |
| 1502R G75500 | 500 FT | 22.000 LB | AQUA | C | 2 #18 PVC +2 FS #22 FHDPEFRPVC |
| 1502R 0091000 | 1,000 FT | 44.000 LB | WHITE | C | 2 #18 PVC +2 FS #22 FHDPEFRPVC |
| 1502R 009500 | 500 FT | 22.000 LB | WHITE | C | 2 #18 PVC +2 FS #22 FHDPEFRPVC |
| 1502R 0101000 | 1,000 FT | 44.000 LB | BLACK | C | 2 #18 PVC +2 FS #22 FHDPEFRPVC |
| 1502R 01010000 | 10,000 FT | 470.000 LB | BLACK | | 2 #18 PVC +2 FS #22 FHDPEFRPVC |
| 1502R 010500 | 500 FT | 22.000 LB | BLACK | C | 2 #18 PVC +2 FS #22 FHDPEFRPVC |
| 1502R 0105000 | 5,000 FT | 215.000 LB | BLACK | | 2 #18 PVC +2 FS #22 FHDPEFRPVC |

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 1 Revision Date: 07-30-2013

© 2019 Belden, Inc.
All Rights Reserved.

Although Belden makes every reasonable effort to ensure their accuracy at the time of this publication, information and specifications described herein are subject to error or omission and to change without notice, and the listing of such information and specifications does not ensure product availability.

Belden provides the information and specifications herein on an "AS IS" basis, with no representations or warranties, whether express, statutory or implied. In no event will Belden be liable for any damages (including consequential, indirect, incidental, special, punitive, or exemplary damages) whatsoever, even if Belden has been advised of the possibility of such damages, whether in an action under contract, negligence or any other theory, arising out of or in connection with the use, or inability to use, the information or specifications described herein.

All sales of Belden products are subject to Belden's standard terms and conditions of sale.

Belden believes this product to be in compliance with EU RoHS (Directive 2002/95/EC, 27-Jan-2003). Material manufactured prior to the compliance date may be in stock at Belden facilities and in our Distributor's inventory. The information provided in this Product Disclosure, and the identification of materials listed as reportable or restricted within the Product Disclosure, is correct to the best of Belden's knowledge, information, and belief at the date of its publication. The information provided in this Product Disclosure is designed only as a general guide for the safe handling, storage, and any other operation of the product itself or the one that it becomes a part of. This Product Disclosure is not to be considered a warranty or quality specification. Regulatory information is for guidance purposes only. Product users are responsible for determining the applicability of legislation and regulations based on their individual usage of the product.

Belden declares this product to be in compliance with EU LVD (Low Voltage Directive 2014/35/EU).