

**8774 Paired - CM Rated Cable**

|  |   |
|--|---|
|   | <p><b>For more information please call</b><br/><b>1-800-Belden1</b></p> <p><b><u>See Put-ups and Colors</u></b></p> <p><b>Related Documents : No. 3 for Paired Cables (Belden Standard).pdf</b></p> |
|--|---|

**Description:**

22 AWG stranded (7x30) tinned copper conductor, polypropylene insulation, twisted pairs individually shielded with Beldfoil® (100% coverage), overall PVC jacket and 22 AWG stranded tinned copper drain wire.

**PHYSICAL CHARACTERISTICS:**

**CONDUCTOR:**

|                            |                    |
|----------------------------|--------------------|
| Number of Pairs            | 9                  |
| Total Number of Conductors | 18                 |
| AWG                        | 22                 |
| Stranding                  | 7x30               |
| Conductor Diameter         | .030 in.           |
| Conductor Material         | TC - Tinned Copper |

**INSULATION:**

|                     |                    |
|---------------------|--------------------|
| Insulation Material | PP - Polypropylene |
| Insulation Diameter | .050 in.           |
| Lay Length          | 1.75 in.           |
| Twists/ft.          | 6.85               |

**Pair Color Code Chart :**

| Number | Color          | Number | Color          |
|--------|----------------|--------|----------------|
| 1      | Black & Red    | 6      | Black & Brown  |
| 2      | Black & White  | 7      | Black & Orange |
| 3      | Black & Green  | 8      | Red & White    |
| 4      | Black & Blue   | 9      | Red & Green    |
| 5      | Black & Yellow |        |                |

**INNER SHIELD:**

|                                  |                              |
|----------------------------------|------------------------------|
| Inner Shield Material Trade Name | Beldfoil® (Z-Fold®)          |
| Inner Shield Type                | Tape                         |
| Inner Shield Material            | Aluminum Foil-Polyester Tape |
| Inner Shield % Coverage          | 100 %                        |

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|  |                    |
|--|--------------------|
| Inner Shield Drain Wire AWG                | 22                 |
| Inner Shield Drain Wire Stranding          | Stranded           |
| Inner Shield Drain Wire Conductor Material | TC - Tinned Copper |

**OUTER SHIELD:**

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

**OUTER JACKET:**

|                       |                          |
|-----------------------|--------------------------|
| Outer Jacket Material | PVC - Polyvinyl Chloride |
|-----------------------|--------------------------|

**OVERALL NOMINAL DIAMETER:**

|                          |          |
|--------------------------|----------|
| Overall Nominal Diameter | .417 in. |
|--------------------------|----------|

**MECHANICAL CHARACTERISTICS:**

|                                  |                          |
|----------------------------------|--------------------------|
| Operating Temperature Range      | -20°C To +80°C           |
| UL Temperature Rating            | 80°C (UL AWM Style 2919) |
| Bulk Cable Weight                | 108.6 lbs/1000 ft.       |
| Max. Recommended Pulling Tension | 230 lbs.                 |
| Min. Bend Radius (Install)       | 4.3 in.                  |

**APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:**

**APPLICABLE STANDARDS:**

|                                       |                           |
|---------------------------------------|---------------------------|
| NEC/(UL) Specification                | CM                        |
| CEC/C(UL) Specification               | CM                        |
| AWM Specification                     | UL Style 2919 (30 V 80°C) |
| EU CE Mark (Y/N)                      | Yes                       |
| EU RoHS Compliant (Y/N)               | Yes                       |
| EU RoHS Compliance Date (mm/dd/yyyy): | 01/01/2004                |

**FLAME TEST:**

|               |                   |
|---------------|-------------------|
| UL Flame Test | UL1685 UL Loading |
|---------------|-------------------|

**PLENUM/NON-PLENUM:**

|              |   |
|--------------|---|
| Plenum (Y/N) | N |
|--------------|---|

**ELECTRICAL CHARACTERISTICS:**

|  |                   |
|--|-------------------|
| Nom. Characteristic Impedance                      | 50 Ohms           |
| Nom. Inductance                                    | .018 µH/ft        |
| Nom. Capacitance Conductor to Conductor @ 1 KHz    | 30 pF/ft          |
| Nom. Cap. Cond. to Other Cond. & Shield @ 1 KHz    | 55 pF/ft          |
| Nominal Velocity of Propagation                    | 66 %              |
| Nom. Conductor DC Resistance @ 20 Deg. C           | 15 Ohms/1000 ft   |
| Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C | 10.6 Ohms/1000 ft |

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|                             |  |
|-----------------------------|--|
| Max. Operating Voltage - UL | 30 V RMS (UL AWM Style 2919), 300 V RMS (CM) |
| Max. Recommended Current    | 1.4 Amps per conductor @25°C                 |

**PUT-UPS AND COLORS:**

| Item         | Description             | Put-Up (ft.) | Ship Weight (lbs.) | Jacket Color | Notes |
|--------------|-------------------------|--------------|--------------------|--------------|-------|
| 8774 060100  | 9 FS PR #22 HDPE<br>PVC | 100          | 11.5               | CHROME       |       |
| 8774 0601000 | 9 FS PR #22 HDPE<br>PVC | 1000         | 113                | CHROME       | C     |
| 8774 060250  | 9 FS PR #22 HDPE<br>PVC | 250          | 29.5               | CHROME       | C     |
| 8774 060500  | 9 FS PR #22 HDPE<br>PVC | 500          | 57.5               | CHROME       | C     |

C = CRATE REEL PUT-UP.

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