Detailed Specifications & Technical Data

# 8308 Paired - Low Capacitance Computer Cables for EIA RS-232 Applications

**For more information please call**

**1-800-Belden1**

**See Put-ups and Colors**

**Color Code Chart : No. 3 for Paired Cables (Belden Standard).pdf**

**Description:**

22 AWG stranded (7x30) tinned copper conductors, twisted pairs, S-R PVC insulation, overall 100% Beldfoil® shield plus overall tinned copper braid shield (65% coverage), PVC jacket.

**PHYSICAL CHARACTERISTICS:**

**CONDUCTOR:**

| | |
|---|---|
| Number of Pairs | 8 |
| Total Number of Conductors | 16 |
| AWG | 22 |
| Stranding | 7x30 |
| Conductor Material | TC - Tinned Copper |

**INSULATION:**

| | |
|---|---|
| Insulation Material | S-R PVC - Semi-Rigid Polyvinyl Chloride |
| Lay Length | 1 in. |
| Twists/ft. | 12 |

Pair Color Code Chart :

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

**OUTER SHIELD:**

| | |
|---|---|
| Outer Shield Material Trade Name | Beldfoil® (Z-Fold®) |
| Outer Shield Type | Tape/Braid |

Outer Shield Material :

| Layer Number | Material Trade Name | Type | Material | % Coverage (%) |
|---|---|---|---|---|
| 1 | Beldfoil® | Tape | Aluminum Foil-Polyester Tape | 100 |
| 2 | | Braid | TC - Tinned Copper | 65 |

| | |
|---|---|
| Outer Shield %Coverage | 100 % |

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**OUTER JACKET:**

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

**OVERALL NOMINAL DIAMETER:**

| | |
|---|---|
| Overall Nominal Diameter | .384 in. |

**MECHANICAL CHARACTERISTICS:**

| | |
|---|---|
| Operating Temperature Range | -30°C To +80°C |
| UL Temperature Rating | 80°C (UL AWM Style 2464) |
| Bulk Cable Weight | 94 lbs/1000 ft. |
| Min. Bend Radius (Install) | 3.9 in. |

**APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:**

**APPLICABLE STANDARDS:**

| | |
|---|---|
| NEC/(UL) Specification | CMG |
| CEC/C(UL) Specification | CMG |
| AWM Specification | UL Style 2464 (300 V 80°C) |

**FLAME TEST:**

| | |
|---|---|
| C(UL) Flame Test | FT4 |

**PLENUM/NON-PLENUM:**

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

**ELECTRICAL CHARACTERISTICS:**

| | |
|---|---|
| Nom. Characteristic Impedance | 70 Ohms |
| Nom. Capacitance Conductor to Conductor @ 1 KHz | 35 pF/ft |
| Nom. Cap. Cond. to Other Cond. & Shield @ 1 KHz | 63 pF/ft |
| Nominal Velocity of Propagation | 60 % |
| Nom. Conductor DC Resistance @ 20 Deg. C | 15.0 Ohms/1000 ft |
| Nominal Outer Shield DC Resistance @ 20 Deg. C | 4.4 Ohms/1000 ft |
| Max. Operating Voltage - UL | 300 V RMS (UL AWM Style 2464) |
| Max. Recommended Current | 1.5 Amps per conductor @ 25°C |

**PUT-UPS AND COLORS:**

| Item | Description | Put-Up (ft.) | Ship Weight (lbs.) | Jacket Color | Notes |
|---|---|---|---|---|---|
| 8308 060100 | 8 PR #22 PVC SHLD PVC | 100 | 10.4 | CHROME | |
| 8308 0601000 | 8 PR #22 PVC SHLD PVC | 1000 | 101 | CHROME | C |
| 8308 060500 | 8 PR #22 PVC SHLD PVC | 500 | 52 | CHROME | C |

C = CRATE REEL PUT-UP.

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