



**Product:** [2202EPE](#) 

Life Cycle Status: Discontinued

Category 6A Cable, 4 Pair, S/FTP, PE Outdoor

## Product Description

Category 6A Premise Horizontal Cable (500MHz), 4-Pair, 23 AWG Solid Bare Copper conductors, S/FTP, Foam Polyethylene insulation, each pair with Beldfoil® shield, tinned copper braid shield (30%), PE jacket

## Technical Specifications

### Product Overview

|                        |                                                                                                                                                                                                              |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable Applications: | Horizontal and building backbone cable; Support current and future Category 6A and 6 applications, such as: 10GBase-T (10 Gigabit Ethernet), 1000Base-T (Gigabit Ethernet), 100 Base-T, 10 Base-T, FDDI, ATM |
| Patent:                | This product has one or more applicable patents. More information on patents can be found at <a href="https://www.belden.com/patents">https://www.belden.com/patents</a> .                                   |

### Product Life Cycle

|             |                                                      |
|-------------|------------------------------------------------------|
| Life Cycle: | Discontinued - the product is no longer manufactured |
|-------------|------------------------------------------------------|

### Construction Details

#### Conductor

| Element                  | Size   | Stranding | Material         | No. of Pairs |
|--------------------------|--------|-----------|------------------|--------------|
| Individual Shielded Pair | 23 AWG | Solid     | BC - Bare Copper | 4            |

#### Insulation

| Element                  | Material                 | Nom. Insulation Diameter | Color Code                                                 |
|--------------------------|--------------------------|--------------------------|------------------------------------------------------------|
| Individual Shielded Pair | PE - Polyethylene (Foam) | 1.32 mm (0.0520 in)      | White & Blue, White & Orange, White & Green, White & Brown |

#### Cable Core

| Description              |
|--------------------------|
| 4 pairs twisted together |

#### Inner Shield

| Element                  | Shield Type | Material                | Coverage |
|--------------------------|-------------|-------------------------|----------|
| Individual Shielded Pair | Tape        | Bi-Laminate (Alum+Poly) | 100%     |

Inner Shield Table Notes: Aluminum facing outside

#### Outer Shield

| Shield Type | Material           | Coverage |
|-------------|--------------------|----------|
| Braid       | Tinned Copper (TC) | 30%      |

#### Outer Jacket

| Material          | Nom. Diameter    | Ripcord |
|-------------------|------------------|---------|
| PE - Polyethylene | 7.5 mm (0.30 in) | Yes     |

Overall Cable Diameter (Nominal): 7.6 mm (0.30 in)

### Electrical Characteristics

#### Electricals

| Max. Conductor DCR        | Max. Mutual Capacitance | Max. Capacitance Unbalance | Nom. Characteristic Impedance |
|---------------------------|-------------------------|----------------------------|-------------------------------|
| 95 Ohm/km (29 Ohm/1000ft) | 56 pF/m (17 pF/ft)      | 160 pF/100m                | 100 Ohm                       |

Delay

| Nom. Velocity of Prop. |
|------------------------|
| 77%                    |

High Frequency

| Frequency [MHz] | Max. Insertion Loss (Attenuation) [dB/100m] | Min. NEXT [dB] | Min. PSNEXT [dB] | Min. ACR [dB] | Min. PSACR [dB] | Min. ACRF (ELFEXT) [dB] | Min. PSACRF (PSELFEXT) [dB] | Min. RL (Return Loss) [dB] | Min. PSANEXT [dB] | Min. PSAACRF [dB] | Min. TCL [dB] | Min. ELTCTL [dB] |
|-----------------|---------------------------------------------|----------------|------------------|---------------|-----------------|-------------------------|-----------------------------|----------------------------|-------------------|-------------------|---------------|------------------|
| 1               | 2.1                                         | 75.3           | 72.3             | 73.2          | 70.2            | 68                      | 65                          | 20                         | 67                | 67                | 40            | 35               |
| 4               | 3.8                                         | 66.3           | 63.3             | 62.5          | 59.5            | 56                      | 53                          | 23                         | 67                | 66.2              | 34            | 23               |
| 10              | 5.9                                         | 60.3           | 57.3             | 54.4          | 51.4            | 48                      | 45                          | 25                         | 67                | 58.2              | 30            | 15               |
| 16              | 7.5                                         | 57.2           | 54.2             | 49.8          | 46.8            | 43.9                    | 40.9                        | 25                         | 67                | 54.1              | 28            | 10.9             |
| 31.2            | 10.5                                        | 52.9           | 49.9             | 42.4          | 39.4            | 38.1                    | 35.1                        | 23.6                       | 67                | 48.3              | 25.1          | 5.1              |
| 62.5            | 15                                          | 48.4           | 45.4             | 33.4          | 30.4            | 32.1                    | 29.1                        | 21.5                       | 65.6              | 42.3              | 22            |                  |
| 100             | 19.1                                        | 45.3           | 42.3             | 26.2          | 23.2            | 28                      | 25                          | 20.1                       | 62.5              | 38.2              | 20            |                  |
| 125             | 21.5                                        | 43.8           | 40.8             | 22.3          | 19.3            | 26.1                    | 23.1                        | 19.4                       | 61                | 36.3              | 19            |                  |
| 200             | 27.6                                        | 40.8           | 37.8             | 13.2          | 10.2            | 22                      | 19                          | 18                         | 58                | 32.2              | 17            |                  |
| 250             | 31.1                                        | 39.3           | 36.3             | 8.3           | 5.3             | 20                      | 17                          | 17.3                       | 56.5              | 30.2              | 16            |                  |
| 300             | 34.3                                        | 38.1           | 35.1             | 3.9           | 0.9             | 18.5                    | 15.5                        | 17.3                       | 55.3              | 28.7              |               |                  |
| 500             | 45.3                                        | 34.8           | 31.8             | -10.4         | -13.4           | 14                      | 11                          | 17.3                       | 52                | 24.2              |               |                  |

High Frequency Table Notes: Limits below 4 MHz are for information only. Reference standard: IEC 61156-5

Transfer Impedance

| Frequency | Max. Transfer Impedance |
|-----------|-------------------------|
| 1 Mhz     | Max. 50 mOhm/m          |
| 10 Mhz    | Max. 100 mOhm/m         |
| 30 Mhz    | Max. 200 mOhm/m         |
| 100 Mhz   | Max. 1000 mOhm/m        |

|                           |                      |
|---------------------------|----------------------|
| Transfer Impedance Class: | Grade 2              |
| Screening Class:          | Type Ib              |
| Screening Table Notes:    | Coupling Attenuation |

Voltage

| Voltage Rating |
|----------------|
| 72 V DC        |

Mechanical Characteristics

Temperature

| Operating      | Installation |
|----------------|--------------|
| -30°C to +60°C | 0°C To +50°C |

Bend Radius

| Stationary Min. | Installation Min. |
|-----------------|-------------------|
| 29 mm (1.1 in)  | 58 mm (2.3 in)    |

|                    |                          |
|--------------------|--------------------------|
| Max. Pull Tension: | 110 N (25 lbf)           |
| Bulk Cable Weight: | 54 kg/km (36 lbs/1000ft) |

Standards and Compliance

|                                  |                                                                                                                                                                                                                                                                    |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Environmental Suitability:       | Outdoor                                                                                                                                                                                                                                                            |
| Flammability / Reaction to Fire: | IEC 60332-1-2                                                                                                                                                                                                                                                      |
| IEEE Compliance:                 | PoE: IEEE 802.3bt Type 1, Type 2, Type 3, Type 4                                                                                                                                                                                                                   |
| Data Category:                   | Category 6A                                                                                                                                                                                                                                                        |
| TIA/EIA Compliance:              | ANSI/TIA 568.2-D                                                                                                                                                                                                                                                   |
| ISO/IEC Compliance:              | ISO/IEC 11801-1                                                                                                                                                                                                                                                    |
| CENELEC Compliance:              | EN 50173-1, Segregation class according EN50174-2 = d                                                                                                                                                                                                              |
| European Halogen Free Standards: | IEC 62821-1 Halogen Free Compliance = Yes, IEC 60754-1 - Halogen Amount = Zero, IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity = 2.5 μS/mm, IEC 60754-2 - Halogen Acid Gas Amount - Min. pH = 4.3, IEC 61034-2 - Smoke Density Min. Transmittance = 60% |
| European Directive Compliance:   | EU CE Mark                                                                                                                                                                                                                                                         |

|                           |           |
|---------------------------|-----------|
| UK Regulation Compliance: | UKCA Mark |
|---------------------------|-----------|

Product Notes

|        |                                                                                                                                  |
|--------|----------------------------------------------------------------------------------------------------------------------------------|
| Notes: | Electrical values are expected performance based on cable testing and representative performance within a typical Belden system. |
|--------|----------------------------------------------------------------------------------------------------------------------------------|

History

|                      |                                                 |
|----------------------|-------------------------------------------------|
| Update and Revision: | Revision Number: 0.16 Revision Date: 03-24-2026 |
|----------------------|-------------------------------------------------|

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