

OSP6U Multi-Conductor - Category 6 Nonbonded-Pair Outside Plant Cable



For more Information
please call

1-800-Belden1

**Description:**

24 AWG solid bare copper conductors, polyolefin insulation, gel-filled, polyethylene jacket. Sequential marking at two foot intervals.

Usage (Overall)**Suitable Applications:**

Premise Horizontal Cable, Gigabit Ethernet, 100BaseTX, 100BaseVG
 ANYLAN, 155ATM, 622ATM, NTSC/PAL Component or Composite Video,
 AES/EBU, Digital Video, RS-422, 350MHz Category 6, Outside Plant, Duct

Physical Characteristics (Overall)**Conductor****AWG:**

| # Pairs | AWG | Stranding | Conductor Material |
|---------|-----|-----------|--------------------|
| 4 | 24 | Solid | BC - Bare Copper |

Insulation**Insulation Material:**

| Insulation Material |
|---------------------|
| PO - Polyolefin |

Outer Shield**Outer Shield Material:**

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

Outer Jacket**Outer Jacket Material:**

| Outer Jacket Material |
|-----------------------|
| PE - Polyethylene |

Overall Cable

Overall Nominal Diameter: 0.271 in.

Pair**Pair Color Code Chart:**

| Number | Color |
|--------|------------------------------|
| 1 | White/Blue Stripe & Blue |
| 2 | White/Orange Stripe & Orange |
| 3 | White/Green Stripe & Green |
| 4 | White/Brown Stripe & Brown |

Mechanical Characteristics (Overall)

Storage Temperature Range: -40°C To +75°C

Installation Temperature Range: -20°C To +60°C

Operating Temperature Range: -40°C To +60°C

Bulk Cable Weight: 31 lbs/1000 ft.

Max. Recommended Pulling Tension: 35 lbs.

Min. Bend Radius (Install)/Minor Axis: 2.750 in.

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Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

| | |
|------------------|-------------------------------|
| Other Standards: | Exceeds 11801:2002 Category 6 |
|------------------|-------------------------------|

| | |
|--------------------------------|-----|
| EU Directive 2000/53/EC (ELV): | Yes |
|--------------------------------|-----|

| | |
|---------------------------------|-----|
| EU Directive 2002/95/EC (RoHS): | Yes |
|---------------------------------|-----|

| | |
|---------------------------------------|------------|
| EU RoHS Compliance Date (mm/dd/yyyy): | 07/01/2005 |
|---------------------------------------|------------|

| | |
|---------------------------------|-----|
| 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 |
|-----------------------------|-----|

| | |
|-------------------------------|------------------------------|
| Telecommunications Standards: | Exceeds 568-B.2-1 Category 6 |
|-------------------------------|------------------------------|

Suitability

| | |
|------------------------|-----|
| Suitability - Outdoor: | Yes |
|------------------------|-----|

| | |
|-----------------------|-----|
| Suitability - Aerial: | Yes |
|-----------------------|-----|

| | |
|----------------------|-----|
| Sunlight Resistance: | Yes |
|----------------------|-----|

Plenum/Non-Plenum

| | |
|---------------|----|
| Plenum (Y/N): | No |
|---------------|----|

Electrical Characteristics (Overall)

Nom. Mutual Capacitance:

| |
|---------------------|
| Capacitance (pF/ft) |
|---------------------|

| |
|--------|
| 15.700 |
|--------|

| | |
|---|----|
| Maximum Capacitance Unbalance (pF/100 m): | 66 |
|---|----|

Nominal Velocity of Propagation:

| |
|--------|
| VP (%) |
|--------|

| |
|----|
| 65 |
|----|

Max. Delay Skew:

| |
|-----------------------|
| Delay Skew (ns/100 m) |
|-----------------------|

| |
|----|
| 25 |
|----|

Maximum Conductor DC Resistance:

| |
|------------------------|
| DCR @ 20°C (Ohm/100 m) |
|------------------------|

| |
|-----|
| 8.9 |
|-----|

Max. Operating Voltage - UL:

| |
|---------|
| Voltage |
|---------|

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

Maximum DCR Unbalanced:

| |
|--------------------------|
| DCR Unbalance @ 20°C (%) |
|--------------------------|

| |
|---|
| 3 |
|---|

Electrical Characteristics-Premise (Overall)

Premise Cable Electrical Table 1:

| Freq. (MHz) | Max. Attenuation (dB/100 m) | Min. NEXT (dB) | Min. PSNEXT (dB) | Min. ACR (dB) | Min. PSACR (dB) | Min RL (dB) |
|-------------|-----------------------------|----------------|------------------|---------------|-----------------|-------------|
| 0.772 | 1.800 | 77 | 75 | 75.2 | 73.2 | |
| 1 | 2.000 | 75.3 | 73.3 | 73.3 | 71.3 | 20.000 |
| 4 | 3.800 | 66.3 | 64.3 | 62.5 | 60.5 | 23.000 |
| 8 | 5.300 | 61.8 | 59.8 | 56.5 | 54.5 | 24.500 |
| 10 | 5.900 | 60.3 | 58.3 | 54.4 | 52.4 | 25.000 |
| 16 | 7.500 | 57.2 | 55.2 | 49.7 | 47.7 | 25.000 |
| 20 | 8.400 | 55.8 | 53.8 | 47.4 | 45.4 | 25.000 |
| 25 | 9.400 | 54.3 | 52.3 | 44.9 | 42.9 | 24.300 |

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| | | | | | | |
|-------|--------|------|------|------|------|--------|
| 31.25 | 10.600 | 52.9 | 50.9 | 42.3 | 40.3 | 23.600 |
| 62.5 | 15.300 | 48.4 | 46.4 | 33.1 | 31.1 | 21.500 |
| 100 | 19.700 | 45.3 | 43.3 | 25.6 | 23.6 | 20.100 |
| 155 | 25.000 | 42.4 | 40.4 | 17.4 | 15.4 | 18.800 |
| 200 | 28.800 | 40.8 | 38.8 | 12 | 10 | 18.000 |
| 250 | 32.600 | 39.3 | 37.3 | 6.7 | 4.7 | 17.300 |
| 300 | 36.200 | 38.1 | 36.1 | 2 | 0 | 16.800 |
| 350 | 39.500 | 37.1 | 35.1 | | | 16.300 |
| 400 | 42.700 | 36.3 | 34.3 | | | 15.900 |
| 500 | 48.600 | 34.8 | 32.8 | | | 15.200 |
| 550 | 51.500 | 34.2 | 32.2 | | | 14.900 |

Premise Cable Electrical Table 2:

| Freq. (MHz) | Input (Unfitted) Imp. (Ohms) | Fitted Impedance | Min. ELFEXT (dB) | Min. PSELFEXT (dB) |
|-------------|------------------------------|------------------|------------------|--------------------|
| 1 | 100 ± 15 | 100 ± 15 | 70 | 68 |
| 4 | 100 ± 15 | 100 ± 15 | 58 | 56 |
| 8 | 100 ± 15 | 100 ± 15 | 51.9 | 49.9 |
| 10 | 100 ± 15 | 100 ± 15 | 50 | 48 |
| 16 | 100 ± 15 | 100 ± 15 | 45.9 | 43.9 |
| 20 | 100 ± 15 | 100 ± 15 | 44 | 42 |
| 25 | 100 ± 15 | 100 ± 15 | 42 | 40 |
| 31.25 | 100 ± 15 | 100 ± 15 | 40.1 | 38.1 |
| 62.5 | 100 ± 15 | 100 ± 15 | 34.1 | 32.1 |
| 100 | 100 ± 15 | 100 ± 15 | 30 | 28 |
| 155 | 100 ± 18 | 100 ± 15 | 26.2 | 24.2 |
| 200 | 100 ± 18 | 100 ± 15 | 24 | 22 |
| 250 | 100 ± 22 | 100 ± 15 | 22 | 20 |
| 300 | 100 ± 22 | 100 ± 15 | 20.5 | 18.5 |
| 350 | 100 ± 22 | 100 ± 15 | 19.1 | 17.1 |

Notes (Overall)

Notes: Jacket sequentially marked at 2 ft. intervals. Third party verified to TIA/EIA-568-B.2, Category 6. Frequencies above 350 MHz are for reference only

Reference (Overall)

Previous Part Number: 24564495

Related Documents:

No related documents are available for this product

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|----------|-------------|-------|-------|-------------------------|
| OSP6U 0101000 | 1,000 FT | 30.000 LB | BLACK | | CAT6 4PR U/UTP OSP REEL |

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