




1300SB Paired - Category 5e ScTP Shipboard ABS Type Approved

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|    | <p>For more information please call 1-800-Belden1</p> <p><u>See Put-ups and Colors</u></p> <p>Related Documents : Termination Instructions for Shielded UTP.pdf</p> |
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Description:

24 AWG solid bare copper conductors, polypropylene insulation, overall Beldfoil® shield, 24 AWG stranded tinned copper drain wire, low smoke zero halogen jacket.

SUITABLE APPLICATIONS:

| | |
|-----------------------|---|
| Suitable Applications | Shipboard LAN/Data, WI-FI, Wireless LAN, Outdoor Antenna, Radio, Broadband, RF, Where ABS Type Approval is Required |
|-----------------------|---|

PHYSICAL CHARACTERISTICS:

CONDUCTOR:

| | |
|----------------------------|------------------|
| Number of Pairs | 4 |
| Total Number of Conductors | 8 |
| AWG | 24 |
| Stranding | Solid |
| Conductor Material | BC - Bare Copper |

INSULATION:

| | |
|--------------------------------|--------------------|
| Insulation Material | PP - Polypropylene |
| Nom. Insulation Wall Thickness | .010 in. |
| Insulation Diameter | .042 in. |

Pair Color Code Chart :

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

OUTER SHIELD:

| | |
|----------------------------------|------------------------------|
| Outer Shield Material Trade Name | Beldfoil® |
| Outer Shield Type | Tape |
| Outer Shield Material | Aluminum Foil-Polyester Tape |
| Outer Shield % Coverage | 100 % |

OUTER SHIELD DRAIN WIRE :

| | |
|-----------------------------|----|
| Outer Shield Drain Wire AWG | 24 |
|-----------------------------|----|

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|--|--------------------|
| Outer Shield Drain Wire Stranding | 7x32 |
| Outer Shield Drain Wire Conductor Material | TC - Tinned Copper |

OUTER JACKET:

| | |
|-----------------------|-------------------------------|
| Outer Jacket Material | LSZH - Low Smoke Zero Halogen |
|-----------------------|-------------------------------|

OVERALL NOMINAL DIAMETER:

| | |
|--------------------------|----------|
| Overall Nominal Diameter | .260 in. |
|--------------------------|----------|

MECHANICAL CHARACTERISTICS:

| | |
|----------------------------------|-------------------|
| Operating Temperature Range | -30°C To +105°C |
| Bulk Cable Weight | 32.4 lbs/1000 ft. |
| Max. Recommended Pulling Tension | 25 lbs. |
| Min. Bend Radius (Install) | 1 in. |

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

| | |
|---------------------------------------|---|
| NEC/(UL) Specification | CMG-LS |
| CEC/C(UL) Specification | CMG-LS |
| IEEE Specification | Std. 45 clause 23 |
| IEC Specification | 11801 Category 5, 60092-376 clause 17, 60092-351, 60754-1, 60754-2, 61034 |
| EU CE Mark (Y/N) | Yes |
| EU RoHS Compliant (Y/N) | Yes |
| EU RoHS Compliance Date (mm/dd/yyyy): | 08/01/2005 |
| TIA/EIA Specification | 568-B.2 Category 5e |
| Other Specification | NEMA WC-63.1 Category 5e, UL 444 |

FLAME TEST:

| | |
|-----------------|-----------------------------------|
| UL Flame Test | UL1685 FT4 Loading, Limited Smoke |
| CSA Flame Test | FT4, Limited Smoke |
| IEC Flame Test | 60332-3-22 (Category A), 60332-1 |
| IEEE Flame Test | 1202 |

SUITABILITY:

| | |
|-----------------------|-----|
| Suitability - Indoor | Yes |
| Suitability - Outdoor | Yes |
| Sunlight Resistance | Yes |

PLENUM/NON-PLENUM:

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

ELECTRICAL CHARACTERISTICS:

| | |
|--|--------------|
| Nom. Mutual Capacitance @ 1 KHz | 15 pF/ft |
| Maximum Capacitance Unbalance (pF/100 m) | 330 pF/100 m |

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|---|-----------------------|
| Nominal Velocity of Propagation | 70 % |
| Maximum Delay (ns/100 m) | 538 @ 100MHz ns/100 m |
| Maximum Delay Skew (ns/100m) | 45 ns/100 m |
| Maximum Conductor DC Resistance @ 20 Deg. C | 9.38 Ohms/100 m |
| Maximum DCR Unbalance @ 20 Deg. C | 3 % |
| Max. Operating Voltage - UL | 300 V RMS |

ELECTRICAL CHARACTERISTICS - PREMISE:

Premise Cable Electricals Table 1 :

| Frequency (MHz) | Max. Attenuation (dB/100 m) | Min. NEXT (dB) | Min. PSNEXT (dB) | Min. ACR (dB) | Min. PSACR (dB) | Min. Return Loss (dB) | Min. Structural Return Loss (dB) |
|-----------------|-----------------------------|----------------|------------------|---------------|-----------------|-----------------------|----------------------------------|
| 1 | 2.0 | 65.3 | 62.3 | 60.3 | 60.3 | 20.0 | 20.0 |
| 4 | 4.1 | 56.3 | 53.3 | 49.2 | 49.2 | 23.0 | 23.0 |
| 8 | 5.8 | 51.8 | 48.8 | 43.0 | 43.0 | 24.5 | 24.5 |
| 10 | 6.5 | 50.3 | 47.3 | 40.8 | 40.8 | 25.0 | 25.0 |
| 16 | 8.2 | 47.3 | 44.3 | 36.1 | 36.1 | 25.0 | 25.0 |
| 20 | 9.3 | 45.8 | 42.8 | 33.5 | 33.5 | 25.0 | 25.0 |
| 25 | 10.4 | 44.3 | 41.3 | 30.9 | 30.9 | 24.3 | 24.3 |
| 31.25 | 11.7 | 42.9 | 39.9 | 28.2 | 28.2 | 23.6 | 23.6 |
| 62.5 | 17.0 | 38.4 | 35.4 | 18.4 | 18.4 | 21.5 | 21.5 |
| 100 | 22.0 | 35.3 | 32.3 | 10.3 | 10.3 | 20.1 | 20.1 |

Premise Cable Electricals Table 2 :

| Frequency (MHz) | Input (Unfitted) Impedance (Ohms) | Fitted Impedance (Ohms) | Min. ELFEXT (dB) | Min. PSELFEXT (dB) |
|-----------------|-----------------------------------|-------------------------|------------------|--------------------|
| 1 | 100 ± 15 | 100 ± 15 | 63.8 | 60.8 |
| 4 | 100 ± 15 | 100 ± 15 | 51.7 | 48.7 |
| 8 | 100 ± 15 | 100 ± 15 | 45.7 | 42.7 |
| 10 | 100 ± 15 | 100 ± 15 | 43.8 | 40.8 |
| 16 | 100 ± 15 | 100 ± 15 | 39.7 | 36.7 |
| 20 | 100 ± 15 | 100 ± 15 | 37.7 | 34.7 |
| 25 | 100 ± 15 | 100 ± 15 | 35.8 | 32.8 |
| 31.25 | 100 ± 15 | 100 ± 15 | 33.9 | 30.9 |
| 62.5 | 100 ± 15 | 100 ± 15 | 27.8 | 24.8 |
| 100 | 100 ± 15 | 100 ± 15 | 23.8 | 20.8 |

NOTES:

Notes RJ-45 Compatible. Jacket sequentially marked at 2 ft. intervals.

PUT-UPS AND COLORS:

| Item | Description | Put-Up (ft.) | Ship Weight (lbs.) | Jacket Color | Notes |
|----------------|-----------------------|--------------|--------------------|--------------|-------|
| 1300SB 0101000 | 4 PR #24 PP FS FRNHPO | 1000 | 35 | BLACK | C |

C = CRATE REEL PUT-UP.

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