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1-800-Belden1



Description:

24 AWG solid BC conductors, polyolefin insulation, plus 2 power conductors, 16 AWG stranded (19x29) tinned copper conductors, polypropylene insulation, unshielded, overall F-R PVC jacket.

Usage (Overall)

Suitable Applications: UTP-CCTV, CCTV Video/Control, Surveillance, Video Over Twisted Pairs, Closed Circuit Television

Twisted Pair

Physical Characteristics

Conductor

AWG:

| # Pairs | AWG | Stranding | Conductor Material | Dia. (mm) |
|---------|-----|-----------|--------------------|-----------|
| 2 | 24 | Solid | BC - Bare Copper | 0.523 |

Insulation

Insulation Material:

| Insulation Material | Dia. (mm) |
|---------------------|-----------|
| PO - Polyolefin | 0.889 |

Twisted Pair Color Code Chart:

| Number | Color |
|--------|-------------------------|
| 1 | Blue and White/Blue |
| 2 | Orange and White/Orange |

Inner Shield

Inner Shield Material:

| Inner Shield Material |
|-----------------------|
| Unshielded |

Individual Shield

Electrical Characteristics

Nominal Velocity of Propagation:

| VP (%) |
|--------|
| 70.000 |

Maximum Conductor DC Resistance:

| DCR @ 20°C (Ohm/100 m) |
|------------------------|
| 9.380 |

Maximum DCR Unbalanced:

| DCR Unbalance @ 20°C (%) |
|--------------------------|
| 5.000 |

Premise Cable Electricals:

| Freq. (MHz) | Max. Attenuation (dB/100 m) | Min. PSNEXT (dB) | Fitted Imp. (Ohms) |
|-------------|-----------------------------|------------------|--------------------|
| 1.0 | 2.000 | 62 | 100 ± 15% |
| 4.0 | 4.100 | 53 | 100 ± 15% |
| 8.0 | 5.800 | 48 | 100 ± 15% |
| 10.0 | 6.500 | 47 | 100 ± 15% |
| 16.0 | 8.200 | 44 | 100 ± 15% |
| 20.0 | 9.300 | 42 | 100 ± 15% |

| | | | |
|-------|--------|----|-----------|
| 25.0 | 10.400 | 41 | 100 ± 15% |
| 31.25 | 11.700 | 39 | 100 ± 15% |
| 62.5 | 17.000 | 35 | 100 ± 15% |
| 100 | 22.000 | 32 | 100 ± 15% |

Premise Cable Electrical Table 1:

| Freq. (MHz) | Min. PSACR (dB) | Min RL (dB) |
|-------------|-----------------|-------------|
| 1 | 60 | 20.000 |
| 4 | 49 | 23.000 |
| 8 | 43 | 24.500 |
| 10 | 41 | 25.000 |
| 16 | 36 | 25.000 |
| 20 | 34 | 25.000 |
| 25 | 31 | 24.300 |
| 31.25 | 28 | 23.600 |
| 62.5 | 19 | 21.500 |
| 100 | 11 | 20.100 |

Premise Cable Electrical Table 2:

| Freq. (MHz) | Min. PSELFEXT (dB) |
|-------------|--------------------|
| 1 | 61 |
| 4 | 49 |
| 8 | 43 |
| 10 | 41 |
| 16 | 37 |
| 20 | 35 |
| 25 | 33 |
| 31.25 | 31 |
| 62.5 | 24 |
| 100 | 21 |

Multi Conductor

Physical Characteristics

Conductor

AWG:

| # Conductors | AWG | Stranding | Conductor Material | Dia. (mm) |
|--------------|-----|-----------|--------------------|-----------|
| 2 | 16 | 19x29 | TC - Tinned Copper | 1.499 |

Insulation

Insulation Material:

| Insulation Material | Wall Thickness (mm) |
|---------------------|---------------------|
| PP - Polypropylene | 0.178 |

Insulation Color Code Chart:

| Number | Color |
|--------|-------|
| 1 | Red |
| 2 | Black |

Individual Shield

Electrical Characteristics

Maximum Conductor DC Resistance:

| DCR @ 20°C (Ohm/100 m) |
|------------------------|
| 4.500 |

Physical Characteristics (Overall)

Conductor

Outer Shield

Outer Shield Material:

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

Outer Jacket

Outer Jacket Material:

| |
|--|
| Outer Jacket Material |
| F-R PVC - Flame Retardant Polyvinyl Chloride |

Overall Cable

Overall Nominal Diameter: 4.826 x 10.363 mm

Mechanical Characteristics (Overall)

Bulk Cable Weight: 63.993 Kg/Km

Max. Recommended Pulling Tension: 444.820 N

Min. Bend Radius/Minor Axis: 50.800 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMR

CEC/C(UL) Specification: CMG

Other Standards: ISO/IEC 11801, Category 5e for data pair

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

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

EU RoHS Compliance Date (mm/dd/yyyy): 04/01/2005

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

Flame Test

UL Flame Test: UL1666 Riser

C(UL) Flame Test: FT4

Plenum/Non-Plenum

Plenum (Y/N): No

Plenum Number: 6284US

Electrical Characteristics (Overall)

Max. Operating Voltage - Non-UL:

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

Notes (Overall)

Notes: Overall jacket sequentially marked.

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|----------------|--------|-------------|-------|-------|-----------------------------|
| 5284US 0091000 | 305 MT | 20.412 KG | WHITE | C | 2 PR #24 PP + 2 #16 PVC PVC |
| 5284US 0101000 | 305 MT | 20.412 KG | BLACK | C | 2 PR #24 PP + 2 #16 PVC PVC |
| 5284US 0105000 | 152 MT | 10.659 KG | BLACK | C | 2 PR #24 PP + 2 #16 PVC PVC |

Notes:

C = CRATE REEL PUT-UP.

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