

89855 Multi-Conductor - Low Capacitance Computer and Computer P.O.S. Cable



For more Information
please call

1-800-Belden1



General Description:

22 AWG solid TC conductors, plenum, solid FEP insulation, twisted pairs, overall Beldfoil (100% coverage) + TC braid shield (55% coverage) plus polyester tape, 22 AWG solid TC drain wire, FEP jacket.

Physical Characteristics (Overall)

Conductor

AWG:

| # Pairs | AWG | Stranding | Conductor Material |
|---------|-----|-----------|--------------------|
| 2 | 22 | Solid | TC - Tinned Copper |

Total Number of Conductors: 4

Insulation

Insulation Material:

| Insulation Material | Wall Thickness (mm) |
|--------------------------------------|---------------------|
| FEP - Fluorinated Ethylene Propylene | 0.406 |

Outer Shield

Outer Shield Material:

| Layer # | Outer Shield Trade Name | Type | Outer Shield Material | Coverage (%) |
|---------|-------------------------|-------|------------------------------|--------------|
| 1 | Beldfoil® | Tape | Aluminum Foil-Polyester Tape | 100 |
| 2 | | Braid | TC - Tinned Copper | 55 |

Outer Shield Drain Wire AWG:

| AWG | Stranding | Drain Wire Conductor Material |
|-----|-----------|-------------------------------|
| 22 | Solid | TC - Tinned Copper |

Outer Shield Separator Material: Polyester Tape

Outer Jacket

Outer Jacket Material:

| Outer Jacket Material | Nom. Wall Thickness (mm) |
|--------------------------------------|--------------------------|
| FEP - Fluorinated Ethylene Propylene | 0.406 |

Overall Cable

Overall Nominal Diameter: 6.909 mm

Pair

Pair Color Code Chart:

| Number | Color |
|--------|----------------|
| 1 | Red & Blue |
| 2 | Black & Yellow |

Mechanical Characteristics (Overall)

Operating Temperature Range: -70°C To +200°C

Bulk Cable Weight: 56.552 Kg/Km

Max. Recommended Pulling Tension: 289.133 N

Min. Bend Radius/Minor Axis: 69.850 mm

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Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMP, MPP

CEC/C(UL) Specification: CMP

EU Directive 2011/65/EU (ROHS II): Yes

EU CE Mark: Yes

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: NFPA 262

CSA Flame Test: FT6

Plenum/Non-Plenum

Plenum (Y/N): Yes

Non-Plenum Number: 9855

Surface Printing (Overall)

Surface Printing: BELDEN-E 89855 E108998 2PR22 200C SHIELDED (UL) CMP C(UL)

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

100

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)

50.8555

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m)

88.587

Nominal Velocity of Propagation:

VP (%)

69.5

Nominal Delay:

Delay (ns/m)

4.79026

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

54.1365

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

16.0769

Nom. Attenuation:

Freq. (MHz) Attenuation (dB/100m)

.3 | 1.3124

METRIC MEASUREMENT VERSION

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| | |
|-----|---------|
| .6 | 1.73893 |
| 1.0 | 2.13265 |
| 1.5 | 2.55918 |

Max. Operating Voltage - UL:

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

Max. Recommended Current:

| |
|---|
| Current |
| 2.2 Amps per conductor @ 25°C (10°C rise in temp) |

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|----------|-------------|-------|-------|---------------------|
| 89855 0101000 | 1,000 FT | 42.000 LB | BLACK | C | 2 PR #22 FEP SH FEP |

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 2 Revision Date: 11-09-2012

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