

88778 Multi-Conductor - CMP Rated (Plenum) Cable

For more Information
please call

1-800-Belden1



Description:

22 AWG stranded (7x30) TC conductor, FEP insulation, twisted pairs individually shielded with Beldfoil® (100% coverage), overall jacket per table below, 22 AWG stranded TC drain wire.

Physical Characteristics (Overall)

Conductor

AWG:

| # Pairs | AWG | Stranding | Conductor Material | Dia. (mm) |
|---------|-----|-----------|--------------------|-----------|
| 6 | 22 | 7x30 | TC - Tinned Copper | 0.762 |

Insulation

Insulation Material:

| Insulation Trade Name | Insulation Material | Dia. (mm) |
|-----------------------|--------------------------------------|-----------|
| Teflon® | FEP - Fluorinated Ethylene Propylene | 1.27 |

Inner Shield

Inner Shield Material:

| Inner Shield Trade Name | Type | Inner Shield Material | Coverage (%) |
|-------------------------|------|------------------------------|--------------|
| Beldfoil® (Z-Fold®) | Tape | Aluminum Foil-Polyester Tape | 100 |

Inner Shield Drain Wire AWG:

| AWG |
|-----|
| 22 |

Inner Shield Drain Wire Stranding: Stranded

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

Outer Shield

Outer Shield Material:

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

Outer Jacket

Outer Jacket Material:

| Outer Jacket Trade Name | Outer Jacket Material |
|-------------------------|--------------------------------------|
| Teflon® | FEP - Fluorinated Ethylene Propylene |

Overall Cabling

Overall Nominal Diameter: 7.849 mm

Pair

Pair Color Code Chart:

| Number | Color |
|--------|----------------|
| 1 | Black & Red |
| 2 | Black & White |
| 3 | Black & Green |
| 4 | Black & Blue |
| 5 | Black & Yellow |
| 6 | Black & Brown |

Pair Lay Length & Direction:

| Lay Length (mm) | Twists/ft. (twist/m) | Direction |
|-----------------|----------------------|-----------|
| | | |

| | | |
|----------|--------|---------------|
| 38.09985 | 26.248 | Left Hand Lay |
|----------|--------|---------------|

Mechanical Characteristics (Overall)

| | |
|--|-----------------|
| Operating Temperature Range: | -70°C To +200°C |
| Bulk Cable Weight: | 107.150 Kg/Km |
| Max. Recommended Pulling Tension: | 725.057 N |
| Min. Bend Radius (Install)/Minor Axis: | 88.900 mm |

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

| | |
|---------------------------------------|------------|
| NEC/(UL) Specification: | CMP |
| CEC/C(UL) Specification: | CMP |
| 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 |
| C(UL) Flame Test: | FT6 |

Plenum/Non-Plenum

| | |
|--------------------|------|
| Plenum (Y/N): | Yes |
| Non-Plenum Number: | 8778 |

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

| |
|-----------------|
| Impedance (Ohm) |
| 50 |

Nom. Inductance:

| |
|-------------------|
| Inductance (µH/m) |
| 0.59058 |

Nom. Capacitance Conductor to Conductor:

| |
|--------------------|
| Capacitance (pF/m) |
| 101.711 |

Nom. Capacitance Cond. to Other Conductor & Shield:

| |
|--------------------|
| Capacitance (pF/m) |
| 219.827 |

Nominal Velocity of Propagation:

| |
|--------|
| VP (%) |
| 69 |

Maximum Conductor DC Resistance:

| |
|------------------------|
| DCR @ 20°C (Ohm/100 m) |
| 52.496 |

Ind. Pair Nominal Shield DC Resistance @ 20 Deg. C: 37.075 Ohm/km

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Max. Operating Voltage - UL:

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

Max. Recommended Current:

| |
|--------------------------------|
| Current |
| 1.96 Amps per conductor @ 25°C |

Notes (Overall)

Notes: Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.

Related Documents:

No related documents are available for this product

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|---------------|--------|-------------|-------|-------|---------------------|
| 88778 002100 | 30 MT | 3.175 KG | RED | C | 6 SH PR #22 FEP FEP |
| 88778 0021000 | 305 MT | 31.752 KG | RED | C | 6 SH PR #22 FEP FEP |
| 88778 002500 | 152 MT | 17.463 KG | RED | C | 6 SH PR #22 FEP FEP |

Notes:
C = CRATE REEL PUT-UP.

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