



Description:

22 AWG stranded (7x30) TC conductors, plenum, FEP insulation, twisted pair, polyester separator tape, overall Beldfoil® shield (100% coverage), 22 AWG stranded TC drain wire, FEP jacket.

Physical Characteristics (Overall)

Conductor

AWG:

| # Pairs | AWG | Stranding | Conductor Material |
|---------|-----|-----------|--------------------|
| 1 | 22 | 7x30 | TC - Tinned Copper |

Insulation

Insulation Material:

| Insulation Material | Wall Thickness (in.) |
|--------------------------------------|----------------------|
| FEP - Fluorinated Ethylene Propylene | .006 |

Outer Shield

Outer Shield Material:

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

Outer Shield Drain Wire AWG:

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

Outer Jacket

Outer Jacket Material:

| Outer Jacket Material | Nom. Wall Thickness (in.) |
|--------------------------------------|---------------------------|
| FEP - Fluorinated Ethylene Propylene | 0.016 |

Overall Cabling

Overall Cabling Separator Material: Polyester Tape

Overall Cabling Separator Thickness: 0.001 in.

Overall Nominal Diameter: 0.123 in.

Pair

Pair Color Code Chart:

| Number | Color |
|--------|-------------|
| 1 | Black & Red |

Mechanical Characteristics (Overall)

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

Bulk Cable Weight: 12.500 lbs/1000 ft.

Max. Recommended Pulling Tension: 27 lbs.

Min. Bend Radius (Install)/Minor Axis: 1.250 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMP

88761 Multi-Conductor - Single-Pair Cable

| | |
|---------------------------------------|------------|
| 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: | 8761 |

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

| |
|-----------------|
| Impedance (Ohm) |
| 42 |

Nom. Inductance:

| |
|--------------------|
| Inductance (µH/ft) |
| .16 |

Nom. Capacitance Conductor to Conductor:

| |
|---------------------|
| Capacitance (pF/ft) |
| 35 |

Nom. Capacitance Cond. to Other Conductor & Shield:

| |
|---------------------|
| Capacitance (pF/ft) |
| 67 |

Nom. Conductor DC Resistance:

| |
|--------------------------|
| DCR @ 20°C (Ohm/1000 ft) |
| 15 |

Nominal Outer Shield DC Resistance:

| |
|--------------------------|
| DCR @ 20°C (Ohm/1000 ft) |
| 12 |

Max. Operating Voltage - UL:

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

Max. Recommended Current:

| |
|-------------------------------|
| Current |
| 2.8 Amps per conductor @ 25°C |

Notes (Overall)

Notes: For use in indoor plenum environments but also suitable for outdoor and underground applications. Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|----------------|----------|-------------|-------|-------|------------------|
| 88761 002U1000 | 1,000 FT | 15.000 LB | RED | | 2 #22 FEP FS FEP |
| 88761 002U500 | 500 FT | 8.000 LB | RED | | 2 #22 FEP FS FEP |

88761 Multi-Conductor - Single-Pair Cable

| | | | | | |
|---------------|----------|-----------|-----|---|-----------------|
| 88761 002100 | 100 FT | 2.800 LB | RED | C | 2#22 FEP FS FEP |
| 88761 0021000 | 1,000 FT | 13.000 LB | RED | C | 2#22 FEP FS FEP |
| 88761 002500 | 500 FT | 8.000 LB | RED | C | 2#22 FEP FS FEP |

Notes:

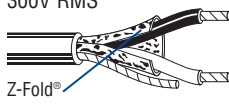
C = CRATE REEL PUT-UP.

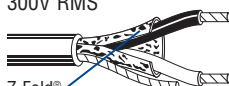
Overall Beldfoil® Shield

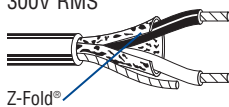
Audio, Control and Instrumentation Cables
Plenum-Rated and Non-Plenum


| Description | Part No. | UL NEC/ C(UL) CEC Type | No. of Pairs | Color Code | Standard Lengths | | Standard Unit Weight | | Insulation Thickness | | Jacket Thickness | | Nominal OD | | Nominal Capacitance | | | |
|-------------|----------|------------------------------|-----------------|---------------|------------------|---|-------------------------|----|-------------------------|----|---------------------|----|---------------|----|---------------------|---------------|------------------|----------------|
| | | | | | Ft. | m | Lbs. | kg | Inch | mm | Inch | mm | Inch | mm | * pF/ Ft. | * pF/ m | ** pF/ Ft. | ** pF/ m |

22 AWG Stranded (7x30) TC Conductors • Twisted Pair • Overall Beldfoil Shield (100% Coverage) • 22 AWG Stranded TC Drain Wire

| Plenum • FEP Insulation • Red FEP Jacket | | | | | | | | | | | | | | | | | | | | |
|---|----------|--------------|---------|---|--------|---------|---------|------|-----|------|-----|------|-----|------|------|----|-----|----|-----|--|
|  <p>Z-Fold®</p> | 300V RMS | 88761 | NEC: | 1 | Black, | 100† | 30.5 | 2.7 | 1.2 | .006 | .15 | .014 | .36 | .119 | 3.02 | 35 | 115 | 67 | 220 | |
| | | | CMP | | Red | U-500† | U-152.4 | 7.5 | 3.4 | | | | | | | | | | | |
| | | | CEC: | | | 500† | 152.4 | 7.5 | 3.4 | | | | | | | | | | | |
| | | | CMP FT6 | | | U-1000† | U-304.8 | 15.0 | 6.8 | | | | | | | | | | | |
| | | | | | | 1000† | 304.8 | 12.0 | 5.4 | | | | | | | | | | | |

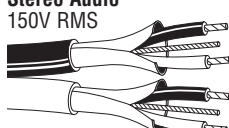
| Plenum • FEP Insulation • Red Fluorocopolymer Jacket | | | | | | | | | | | | | | | | | | | | |
|---|----------|--------------|---------|---|--------|-------|-------|------|-----|------|-----|------|-----|------|------|----|-----|----|-----|--|
|  <p>Z-Fold®</p> | 300V RMS | 87761 | NEC: | 1 | Black, | 500† | 152.4 | 7.0 | 3.2 | .006 | .15 | .014 | .36 | .116 | 2.95 | 35 | 115 | 67 | 220 | |
| | | | CMP | | Red | 1000† | 304.8 | 11.0 | 5.0 | | | | | | | | | | | |
| | | | CEC: | | | | | | | | | | | | | | | | | |
| | | | CMP FT6 | | | | | | | | | | | | | | | | | |

| Plenum • FEP Insulation • Natural Flamarrest® Jacket | | | | | | | | | | | | | | | | | | | |
|---|----------|--------------|---------|---|--------|---------|---------|------|-----|------|-----|------|-----|------|------|----|-----|----|-----|
|  <p>Z-Fold®</p> | 300V RMS | 82761 | NEC: | 1 | Black, | U-500† | U-152.4 | 7.0 | 3.2 | .006 | .15 | .014 | .36 | .116 | 2.95 | 35 | 115 | 67 | 220 |
| | | | CMP | | Red | U-1000† | U-304.8 | 14.0 | 6.4 | | | | | | | | | | |
| | | | CEC: | | | 1000† | 304.8 | 11.0 | 5.0 | | | | | | | | | | |
| | | | CMP FT6 | | | | | | | | | | | | | | | | |

| Plenum • FEP Insulation • Flamarrest Jacket (Black, Gray, Brown, Red, Orange, Yellow, Green, Blue, Purple or White) | | | | | | | | | | | | | | | | | | | |
|---|---------------|------------------------------------|---------|---|--------|--------|---------|------|------|------|-----|------|-----|------|------|----|-----|----|-----|
|  | 300V RMS 60°C | 9451P <small>new</small> | NEC: | 1 | Black, | U-1000 | U-304.8 | 15.0 | 6.8 | .007 | .18 | .017 | .43 | .127 | 3.23 | 35 | 115 | 67 | 220 |
| | | | CMP | | Red | 5000 | 1524.0 | 75.0 | 34.0 | | | | | | | | | | |
| | | | CEC: | | | | | | | | | | | | | | | | |
| | | | CMP FT6 | | | | | | | | | | | | | | | | |

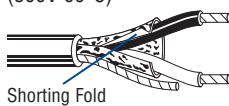

The jacket and shield are bonded so both can be removed on automatic stripping equipment. Drain wire is inside foil shield.

22 AWG Stranded (19x34) TC Conductors • Dual Twisted Pairs • Overall Beldfoil Shield (100% Coverage) • 24 AWG Stranded TC Drain Wire

| PVC Insulation • PVC Jacket in Zip-Cord Construction (Red & Green, Red & Black, Red & Purple or Red & Gray) | | | | | | | | | | | | | | | | | | | |
|---|--------------------------|--------------|------|---|--------|--------|---------|------|------|------|-----|------|-----|------|------|------|-----|-----|-----|
|  | Stereo Audio 150V RMS | 1504A | NEC: | 2 | Black, | U-1000 | U-304.8 | 32.0 | 14.5 | .010 | .25 | .020 | .51 | .143 | 3.63 | 57 | 187 | 100 | 328 |
| | | | CM | | Red | 2000†† | 609.8 | 64.0 | 29.0 | | | | | x | x | | | | |
| | | | CEC: | | | | | | | | | | | | .286 | 7.26 | | | |
| | | | CM | | | | | | | | | | | | | | | | |

††2000 ft. put-up available in Red & Gray or Red & Green only.
The jacket and shield are bonded so both can be removed on automatic stripping equipment. Drain wire is inside foil shield.

20 AWG Stranded (7x28) TC Conductors • Twisted Pair • Overall Beldfoil Shield (100% Coverage) • 20 AWG Stranded TC Drain Wire

| Polyethylene Insulation • Chrome PVC Jacket | | | | | | | | | | | | | | | | | | | |
|---|----------------------------------|-------------|------|---|--------|--------|---------|-------|------|------|-----|------|-----|------|------|----|----|----|-----|
|  <p>Shorting Fold</p> | UL AWM Style 2092 (300V 60°C) | 8762 | NEC: | 1 | Black, | 100 | 30.5 | 3.2 | 1.5 | .016 | .41 | .028 | .71 | .204 | 5.18 | 27 | 89 | 49 | 161 |
| | | | CM | | Clear | 250 | 76.2 | 6.3 | 2.8 | | | | | | | | | | |
| | | | CEC: | | | U-500 | U-152.4 | 12.0 | 5.5 | | | | | | | | | | |
| | | | CM | | | 500 | 152.4 | 12.0 | 5.5 | | | | | | | | | | |
| | | | | | | U-1000 | U-304.8 | 23.0 | 10.5 | | | | | | | | | | |
| | | | | | | 1000 | 304.8 | 23.0 | 10.5 | | | | | | | | | | |
| | | | | | | 2000 | 609.6 | 46.0 | 20.9 | | | | | | | | | | |
| | | | | | 10000 | 3048.0 | 240.0 | 109.1 | | | | | | | | | | | |
|  | UL AWM Style 2092 (300V 60°C) | 9464 | NEC: | 1 | Black, | U-500 | U-152.4 | 17.0 | 7.7 | .016 | .41 | .035 | .89 | .214 | 5.44 | 27 | 89 | 49 | 161 |
| | | | CM | | Clear | U-1000 | U-304.8 | 32.0 | 14.5 | | | | | | | | | | |
| | | | CEC: | | | | | | | | | | | | | | | | |
| | | CM | | | | | | | | | | | | | | | | | |

The jacket and shield are bonded so both can be removed on automatic stripping equipment. Drain wire is on the inside of foil shield.

TC = Tinned Copper

*Capacitance between conductors.

**Capacitance between one conductor and other conductors connected to shield.

†Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel from length shown.