

**8777****Multi-Conductor - Shielded Twisted Pair Cable****Description**

22 AWG stranded (7x30) tinned copper conductors, polypropylene insulation, twisted pairs individually Beldfoil® Shielded (100% coverage), 22 AWG stranded tinned copper drain wire, PVC jacket.

Put Ups and Colours

| Item # | Putup | Ship Weight | Jacket Colour | Notes | Item Description |
|---------------|-----------|-------------|---------------|-------|--------------------------|
| 8777 060100 | 100 FT | 4.600 LB | CHROME | | 3 SHLD PR #22 PP PVC CHR |
| 8777 0601000 | 1,000 FT | 42.000 LB | CHROME | C | 3 SHLD PR #22 PP PVC CHR |
| 8777 06010000 | 10,000 FT | 450.000 LB | CHROME | C Y | 3 SHLD PR #22 PP PVC CHR |
| 8777 0601640 | 1,640 FT | 67.240 LB | CHROME | C | 3 SHLD PR #22 PP PVC CHR |
| 8777 060250 | 250 FT | 11.000 LB | CHROME | C | 3 SHLD PR #22 PP PVC CHR |
| 8777 0603280 | 3,280 FT | 137.760 LB | CHROME | C | 3 SHLD PR #22 PP PVC CHR |
| 8777 060500 | 500 FT | 21.000 LB | CHROME | C | 3 SHLD PR #22 PP PVC CHR |
| 8777 0605000 | 5,000 FT | 210.000 LB | CHROME | C | 3 SHLD PR #22 PP PVC CHR |
| 8777 060U1000 | 1,000 FT | 40.000 LB | CHROME | | 3 SH PR #22 PP PVC CHR |
| 8777 060U500 | 500 FT | 20.500 LB | CHROME | | 3 SHLD PR #22 PP PVC CHR |

Notes:

C = Create Reel Put-up

Y = Final put-up length may vary -10% to +20% from length shown may contain 2 pieces, minimum length of any one piece is 1500'.

Physical Characteristics (overall)**Conductor – AWG**

| # Pairs | AWG | Stranding | Conductor Material | Dia. (In.) |
|---------|-----|-----------|--------------------|------------|
| 3.000 | 22 | 7x30 | TC – Tinned Copper | 0.030 |

Insulation – Insulation Material

| Ins Material | Dia. (In.) |
|--------------------|------------|
| PP – Polypropylene | 0.050 |

Inner Shield – Inner Shield Material

| Layer # | Inner Shield Trade Name | Type | Inner Shield Material | % Coverage (%) |
|---------|-------------------------|------|-------------------------------|----------------|
| 1 | Beldfoil® (Z-Fold®) | Tape | Aluminium Foil-Polyester Tape | 100 |
| 2 | | Tape | Polyester | 100 |

Inner Shield Drain Wire AWG: 22**Inner Shield Drain Wire Stranding:** 19x34**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 Material |
|-------------------------|
| PVC – Polyvinylchloride |

Overall Cabling – Overall Nominal Diameter: 0.273 in.**Pair Colour Code Chart**

| Number | Colour |
|--------|---------------|
| 1 | Black & Red |
| 2 | Black & White |
| 3 | Black & Green |

Pair Lay Length & Direction

| Lay Length (In.) | Twists/ft. (twist/ft) |
|------------------|-----------------------|
| 1.750 | 6.850 |

Mechanical Characteristics (overall)

| | |
|---------------------------------------|--------------------------|
| Operating Temperature Range | -20°C to +80°C |
| UL Temperature Range | 80°C (UL AWM Style 2919) |
| Bulk Cable Weight | 40.800 lbs/1000ft |
| Max. Recommended Pulling Tension | 79 lbs |
| Min. Bend Radius (Install)/Minor Axis | 2.750 In. |

Applicable Specifications and Agency Compliance (overall)**Application**

| | |
|---|---------------------|
| NEC (UL) Specification | CM CM UL Style 2919 |
| CEC/C (UL) Specification | (300V/80°C) |
| AWM Specification | |
| EU CE Mark | |
| EU RoHS Compliant (commence date: dd/mm/yyyy) | (01/01/2004) |

Flame Test

| | |
|---------------|--------------------|
| UL Flame Test | UL 1685 UL Loading |
|---------------|--------------------|

Plenum/Non-Plenum

| | |
|---------------|---------------------|
| Plenum | 88777, 87777, 82777 |
| Plenum Number | |

Electrical Characteristics (overall)**Nom. Characteristics Impedance**

| | |
|--|-----------------|
| | Impedance (Ohm) |
| | 50.000 |

Nom. Inductance

| | |
|--|--------------------|
| | Inductance (µH/ft) |
| | 0.180 |

Nom. Capacitance Conductor to Conductor

| | |
|--|---------------------|
| | Capacitance (pF/ft) |
| | 30.000 |

Nom. Capacitance Conductor to Other Conductor & Shield

| | |
|--|---------------------|
| | Capacitance (pF/ft) |
| | 55.000 |

Nominal Velocity of Propagation

| | |
|--|--------|
| | VP (%) |
| | 66 |

Nominal Conductor DC Resistance

| | |
|--|--------------------------|
| | DCR @ 20°C (Ohm/1000 ft) |
| | 15.000 |

Ind. Pair Nominal Shield DC Resistance @ 20°C: 10.600 Ohm/1000 ft

Max. Operating Voltage – UL

| | |
|--|------------------------------|
| | Voltage |
| | 30 V RMS (UL AWM Style 2919) |
| | 300 V RMS (CM) |

Max. Recommended Current

| | |
|--|-----------------------------|
| | Current |
| | 2 Amps per conductor @ 25°C |