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General Description:

Series 6, 18 AWG solid .040" bare copper-covered steel conductor, plenum, foam FEP insulation, Duobond® II + aluminum braid shield (60% coverage), Flamarrest® jacket.

Physical Characteristics (Overall)

Conductor

AWG:

| # Coax | AWG | Stranding | Conductor Material | Dia. (mm) |
|--------|-----|-----------|----------------------------------|-----------|
| 1 | 18 | Solid | BCCS - Bare Copper Covered Steel | 1.016 |

Total Number of Conductors: 1

Insulation

Insulation Material:

| Insulation Material | Dia. (mm) |
|--|-----------|
| FFEP - Foam Fluorinated Ethylene Propylene | 4.318 |

Outer Shield

Outer Shield Material:

| Layer # | Outer Shield Trade Name | Type | Outer Shield Material | Coverage (%) |
|---------|-------------------------|-------|---|--------------|
| 1 | Bonded Duofoil® | Tape | Bonded Aluminum Foil-Polyester Tape-Aluminum Foil | 100 |
| 2 | | Braid | AL - Aluminum | 60 |

Outer Jacket

Outer Jacket Material:

| Outer Jacket Trade Name | Outer Jacket Material |
|-------------------------|---------------------------------------|
| Flamarrest® | LS PVC - Low Smoke Polyvinyl Chloride |

Overall Cable

Overall Nominal Diameter: 5.969 mm

Mechanical Characteristics (Overall)

| | |
|-----------------------------------|----------------|
| Operating Temperature Range: | -20°C To +75°C |
| Bulk Cable Weight: | 37.205 Kg/Km |
| Max. Recommended Pulling Tension: | 560.473 N |
| Min. Bend Radius/Minor Axis: | 57.150 mm |

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

| | |
|---------------------------------------|------------|
| NEC/(UL) Specification: | CATVP, CMP |
| CEC/C(UL) Specification: | CMP |
| EU Directive 2011/65/EU (ROHS II): | Yes |
| EU CE Mark: | No |
| 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 |
| Series Type: | Series 6 |

Flame Test

UL Flame Test: NFPA 262

| | |
|--------------------------|--------------------|
| CSA Flame Test: | FT6 |
| Plenum/Non-Plenum | |
| Plenum (Y/N): | Yes |
| Non-Plenum Number: | 9116, 9116N, 9116R |

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

| |
|------------------------|
| Impedance (Ohm) |
| 75 |

Nom. Inductance:

| |
|--------------------------|
| Inductance (µH/m) |
| 0.29529 |

Nom. Capacitance Conductor to Shield:

| |
|---------------------------|
| Capacitance (pF/m) |
| 53.4803 |

Nominal Velocity of Propagation:

| |
|---------------|
| VP (%) |
| 83 |

Nominal Delay:

| |
|---------------------|
| Delay (ns/m) |
| 4.06844 |

Nom. Conductor DC Resistance:

| |
|----------------------------|
| DCR @ 20°C (Ohm/km) |
| 91.868 |

Nominal Outer Shield DC Resistance:

| |
|----------------------------|
| DCR @ 20°C (Ohm/km) |
| 29.529 |

Nom. Attenuation:

| Freq. (MHz) | Attenuation (dB/100m) |
|-------------|-----------------------|
| 1 | 0.9843 |
| 10 | 2.16546 |
| 50 | 5.2496 |
| 100 | 7.2182 |
| 200 | 9.843 |
| 400 | 15.0926 |
| 700 | 21.6546 |
| 900 | 25.2637 |
| 1000 | 26.9042 |

Max. Operating Voltage - UL:

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

Minimum Structural Return Loss:

| Description | Freq. (MHz) | Start Freq. (MHz) | Stop Freq. (MHz) | Min. SRL (dB) |
|-------------|-------------|-------------------|------------------|---------------|
| | | 5 | 1000 | 20 |

Sweep Test

Sweep Testing: 5 MHz - 1 GHz

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|----------------|----------|-------------|---------|-------|----------------------|
| 9116P 010U1000 | 1,000 FT | 27.000 LB | BLACK | | #18 FFEP RG6/U FLRST |
| 9116P 010U500 | 500 FT | 14.000 LB | BLACK | | #18 FFEP RG6/U FLRST |
| 9116P 010I000 | 1,000 FT | 27.000 LB | BLACK | C | #18 FFEP RG6/U FLRST |
| 9116P 877U1000 | 1,000 FT | 27.000 LB | NATURAL | | #18 FFEP RG6/U FLRST |
| 9116P 877I000 | 1,000 FT | 27.000 LB | NATURAL | C | #18 FFEP RG6/U FLRST |

Notes:

C = CRATE REEL PUT-UP.

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