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General Description:

Series 6, 18 AWG solid .040" bare copper-covered steel conductor, gas-injected foam polyethylene insulation, Duobond® II + aluminum braid shield (60% coverage), PVC 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) |
|--------------------------------------|-----------|
| Gas-injected FPE - Foam Polyethylene | 4.572 |

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 Material |
|--------------------------|
| PVC - Polyvinyl Chloride |

Overall Cable

Overall Nominal Diameter: 6.858 mm

Mechanical Characteristics (Overall)

Operating Temperature Range: -40°C To +80°C

Bulk Cable Weight: 40.181 Kg/Km

Max. Recommended Pulling Tension: 560.473 N

Min. Bend Radius/Minor Axis: 69.850 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification: CATV, CM

CEC/C(UL) Specification: CM

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): 01/01/2004

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: UL1581 Vertical Flame and FT-1 Flame Test

Plenum/Non-Plenum

Plenum (Y/N): No
 Plenum Number: 9116P

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

| Impedance (Ohm) | Tolerance (Ohms) |
|-----------------|------------------|
| 75 | ± 3 |

Nom. Inductance:

| Inductance (µH/m) |
|-------------------|
| 0.318257 |

Nom. Capacitance Conductor to Shield:

| Capacitance (pF/m) |
|--------------------|
| 53.1522 |

Nominal Velocity of Propagation:

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

Nominal Delay:

| Delay (ns/m) |
|--------------|
| 3.9372 |

Nom. Conductor DC Resistance:

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

Nominal Outer Shield DC Resistance:

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

Max. Attenuation:

| Freq. (MHz) | Attenuation (dB/100m) |
|-------------|-----------------------|
| 5 | 2.19827 |
| 55 | 5.2496 |
| 211 | 9.41647 |
| 270 | 10.6304 |
| 300 | 11.2538 |
| 350 | 12.2053 |
| 400 | 13.124 |
| 450 | 13.9771 |
| 550 | 15.4535 |
| 750 | 18.3408 |
| 870 | 19.686 |
| 1000 | 21.4577 |

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 |
|---------------|----------|-------------|----------------|-------|-----------------------|
| 9116 Q5HU1000 | 1,000 FT | 29.000 LB | WHITE, NEUTRAL | | #18 GIFHDL DPE SH PVC |
| 9116 Q5H1000 | 1,000 FT | 30.000 LB | WHITE, NEUTRAL | | #18 GIFHDL DPE SH PVC |
| 9116 009N1000 | 1,000 FT | 30.000 LB | WHITE | C | #18 GIFHDL DPE SH PVC |
| 9116 009U1000 | 1,000 FT | 29.000 LB | WHITE | | #18 GIFHDL DPE SH PVC |
| 9116 009I000 | 1,000 FT | 30.000 LB | WHITE | | #18 GIFHDL DPE SH PVC |
| 9116 009500 | 500 FT | 15.500 LB | WHITE | | #18 GIFHDL DPE SH PVC |
| 9116 010N1000 | 1,000 FT | 30.000 LB | BLACK | C | #18 GIFHDL DPE SH PVC |
| 9116 010S700 | 700 FT | 18.900 LB | BLACK | | #18 GIFHDL DPE SH PVC |
| 9116 010U1000 | 1,000 FT | 29.000 LB | BLACK | | #18 GIFHDL DPE SH PVC |
| 9116 010U500 | 500 FT | 15.000 LB | BLACK | | #18 GIFHDL DPE SH PVC |
| 9116 010I000 | 1,000 FT | 30.000 LB | BLACK | C | #18 GIFHDL DPE SH PVC |

Detailed Specifications & Technical Data



METRIC MEASUREMENT VERSION

9116 Coax - CATV Cable

| | | | | |
|---------------|----------|-----------|--------------|---------------------|
| 9116 010500 | 500 FT | 15.500 LB | BLACK | #18 GIFHDLPE SH PVC |
| 9116 290U1000 | 1,000 FT | 29.000 LB | BEIGE, LIGHT | #18 GIFHDLPE SH PVC |

Notes:

C = CRATE REEL PUT-UP.

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