

Product: [9104P](#) 

CATV Video, RG59, 20 AWG BCCS, CMP



Product Description

Series 59, 20 AWG solid .032" bare copper-covered steel conductor, plenum, foam FEP insulation, Duobond®; Aluminum braid(s) shield (70% coverage), Flamarrest® jacket.

Technical Specifications

Physical Characteristics (Overall)

| Conductor        |           |                                  |                  |             |
|------------------|-----------|----------------------------------|------------------|-------------|
| AWG              | Stranding | Material                         | Nominal Diameter | No. of Coax |
| 20               | Solid     | BCCS - Bare Copper Covered Steel | 0.032 in         | 1           |
| Conductor Count: |           | 1                                |                  |             |

| Material                                    | Material Trade Name | Nominal Diameter |
|---------------------------------------------|---------------------|------------------|
| FEP - Fluorinated Ethylene Propylene (Foam) | Teflon®             | 0.14 in          |

| Outer Shield Material |       |                    |                     |              |
|-----------------------|-------|--------------------|---------------------|--------------|
| Type                  | Layer | Material           | Material Trade Name | Coverage [%] |
| Tape                  | 1     | Alum / Poly / Alum | Bonded Duofoil®     | 100 %        |
| Braid                 | 2     | Aluminum           |                     | 70 %         |

| Outer Jacket Material                   |                     |                  |
|-----------------------------------------|---------------------|------------------|
| Material                                | Material Trade Name | Nominal Diameter |
| PVC-LS - Polyvinyl Chloride (Low Smoke) | Flamarrest®         | 0.205 in         |

Electrical Characteristics

| Conductor DCR         |                          |                     |
|-----------------------|--------------------------|---------------------|
| Nominal Conductor DCR | Nominal Outer Shield DCR | Outer Conductor DCR |
| 44.5 Ohm/1000ft       | 12 Ohm/1000ft            | 12 Ohm/1000ft       |

| Capacitance                          |  |
|--------------------------------------|--|
| Nom. Capacitance Conductor to Shield |  |
| 16.3 pF/ft                           |  |

| Inductance         |  |
|--------------------|--|
| Nominal Inductance |  |
| 0.09 µH/ft         |  |

| Impedance                        |  |
|----------------------------------|--|
| Nominal Characteristic Impedance |  |
| 75 Ohm                           |  |

| Return Loss (RL) |                                   |
|------------------|-----------------------------------|
| Frequency [MHz]  | Min. Structural Return Loss (SRL) |
| 10-1000 MHz      | 20 dB                             |

High Frequency (Nominal/Typical)

| Frequency [MHz] | Nom. Insertion Loss |
|-----------------|---------------------|
| 1 MHz           | 0.4 dB/100ft        |
| 10 MHz          | 0.8 dB/100ft        |
| 50 MHz          | 1.8 dB/100ft        |
| 100 MHz         | 2.6 dB/100ft        |
| 200 MHz         | 3.8 dB/100ft        |
| 400 MHz         | 5.6 dB/100ft        |
| 700 MHz         | 7.6 dB/100ft        |
| 900 MHz         | 8.8 dB/100ft        |
| 1000 MHz        | 9.4 dB/100ft        |

Delay

| Nominal Delay | Nominal Velocity of Propagation (VP) [%] |
|---------------|------------------------------------------|
| 1.24 ns/ft    | 83 %                                     |

High Freq

| Frequency [MHz] | Max. Insertion Loss (Attenuation) |
|-----------------|-----------------------------------|
| 1000 MHz        | 11 dB/100ft                       |

Voltage

| UL Voltage Rating |
|-------------------|
| 300 V RMS         |

Temperature Range

|                       |                |
|-----------------------|----------------|
| Operating Temp Range: | -20°C To +75°C |
|-----------------------|----------------|

Mechanical Characteristics

|                                  |               |
|----------------------------------|---------------|
| Bulk Cable Weight:               | 20 lbs/1000ft |
| Max Recommended Pulling Tension: | 100 lbs       |
| Min Bend Radius/Minor Axis:      | 2 in          |

Standards

|                          |            |
|--------------------------|------------|
| NEC/(UL) Specification:  | CATVP, CMP |
| CEC/C(UL) Specification: | CMP        |
| RG Type:                 | 59/U Type  |
| Series Type:             | Series 59  |

Applicable Environmental and Other Programs

|                                       |                               |
|---------------------------------------|-------------------------------|
| Environmental Space:                  | Indoor - Plenum               |
| EU Directive 2000/53/EC (ELV):        | Yes                           |
| EU Directive 2003/96/EC (BFR):        | Yes                           |
| EU Directive 2011/65/EU (ROHS II):    | Yes                           |
| EU Directive 2012/19/EU (WEEE):       | Yes                           |
| EU Directive Compliance:              | EU Directive 2003/11/EC (BFR) |
| EU CE Mark:                           | No                            |
| EU RoHS Compliance Date (yyyy-mm-dd): | 2005-04-01                    |
| MII Order #39 (China RoHS):           | Yes                           |

Suitability

|                       |     |
|-----------------------|-----|
| Suitability - Indoor: | Yes |
|-----------------------|-----|

Flammability, LS0H, Toxicity Testing

|                    |           |
|--------------------|-----------|
| UL Flammability:   | NFPA 262  |
| CSA Flammability:  | FT6       |
| UL voltage rating: | 300 V RMS |

Plenum/Non-Plenum

|               |     |
|---------------|-----|
| Plenum (Y/N): | Yes |
|---------------|-----|

Part Number

Variants

| Item #        | Color   | Putup Type | Length   | UPC          |
|---------------|---------|------------|----------|--------------|
| 9104P 8771000 | Natural | Reel       | 1,000 ft | 612825224327 |

|           |                        |
|-----------|------------------------|
| Footnote: | C - CRATE REEL PUT-UP. |
|-----------|------------------------|

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.298 Revision Date: 04-28-2020 |
|----------------------|--------------------------------------------------|

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