

301-CI9301-0500

Multi-Conductor – Shield Twisted Pair Cable



DESCRIPTION

20 AWG stranded (7x28) tinned copper conductor, polyethylene insulation, twisted pair, aluminum shield (125% coverage), 20 AWG stranded tinned copper drain wire, PVC jacket.

APPLICATION

Multipair Audio, Control and Instrumentation Cable for Industrial, Data, Interconnect and Analogue Audio used.

PHYSICAL CHARACTERISTICS

Conductor

AWG

| Pair | AWG | Stranding | Conductor Material |
|------|-----|-----------|--------------------|
| 1 | 20 | 7x28 | TC – Tinned Copper |

Insulation

Insulation Material

| Insulation Material | Wall Thickness (mm) |
|---------------------|---------------------|
| PE – Polyethylene | 0.41 |

Outer Shield

Outer Shield Material

| Type | Outer Shield Material | Coverage |
|------|-----------------------|----------|
| Tape | Aluminum Mylar | 125% |

Outer Shield Drain Wire AWG

| AWG | Stranding | Drain Wire Conductor Material |
|-----|-----------|-------------------------------|
| 20 | 7x28 | TC – Tinned Copper |

Outer Jacket

Outer Jacket Material

| Outer Jacket Material | Nom. Wall Thickness (mm) |
|--------------------------|--------------------------|
| PVC – Polyvinyl Chloride | 0.71 |

Overall Cabling

Overall Nominal Diameter : 5.1 mm

Pair

Pair Color Code Chart

| Number | Color |
|--------|---------------|
| 1 | Black & Clear |

Mechanical Characteristics (Overall Cable)

| | |
|-----------------------------|---------------|
| Operating Temperature Range | -20°C to 80°C |
| Temperature Rating | 80°C |
| Max Pulling Tension | 21 Kg |
| Min. Bend Radius | 57.15 mm |

Applicable Specifications and Agency Compliance (Overall Cable)

Applicable Standards

| | |
|--------------------------------------|-----|
| EU CE Mark (Y/N) | Yes |
| EU Directive 2002/95/EC (RoHS) (Y/N) | Yes |
| EU RoHS (Y/N) | Yes |

Electrical Characteristics (Overall Cable)

Nom. Characteristic Impedance

| Impedance (Ohm) |
|-----------------|
| 56 |

Nom. Inductance

| Inductance (μH/ft) |
|--------------------|
| 0.18 |

Nom. Capacitance Conductor to Conductor

| Capacitance (pF/ft) |
|---------------------|
| 27 |

Nom. Capacitance Cond. to Other Conductor & Shield

| Capacitance (pF/ft) |
|---------------------|
| 49 |

Nom. Conductor DC Resistance

| DCR @20°C (Ohm/1000ft) |
|------------------------|
| 9.5 |

Max. Operating Voltage

| Voltage |
|---------|
| 300 |

Max. Operating Current

| Current/Cond. @ 25°C |
|----------------------|
| 3.9A |

Part Number

| | |
|-----------------|--------------------------------------|
| 301-CI9301-0500 | 1 Pair 20 AWG Shielded Twisted Cable |
|-----------------|--------------------------------------|

Product Family

| | |
|-----------------|--------------------------------------|
| 301-CI9302-0500 | 2 Pair 20 AWG Shielded Twisted Cable |
| 301-CI9303-0500 | 3 Pair 20 AWG Shielded Twisted Cable |
| 301-CI9304-0500 | 4 Pair 20 AWG Shielded Twisted Cable |

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