

9550 Multi-Conductor - Computer Cable for EIA RS-232 Applications



Description:

24 AWG stranded (7x32) TC conductors, semi-rigid PVC insulation, twisted pairs, overall Beldfoil shield (100% coverage), 24 AWG stranded TC drain Wire (continued), PVC jacket.

Physical Characteristics (Overall)

Conductor

AWG:

| # Pairs | AWG | Stranding | Conductor Material |
|---------|-----|-----------|--------------------|
| 50 | 24 | 7x32 | TC - Tinned Copper |

Insulation

Insulation Material:

| Insulation Material |
|---|
| S-R PVC - Semi-Rigid Polyvinyl Chloride |

Outer Shield

Outer Shield Material:

| Outer Shield Trade Name | Type | Outer Shield Material | Coverage (%) |
|-------------------------|------|--|--------------|
| Beldfoil® | Tape | Aluminum Foil-Polyester Tape w/Shorting Fold | 100 |

Outer Shield Drain Wire AWG:

| AWG | Stranding | Drain Wire | Conductor Material |
|-----|-----------|------------|--------------------|
| 24 | 7x32 | | TC - Tinned Copper |

Outer Jacket

Outer Jacket Material:

| Outer Jacket Material |
|--------------------------|
| PVC - Polyvinyl Chloride |

Overall Cabling

Overall Nominal Diameter: 0.708 in.

Pair

Pair Color Code Chart:

| Number | Color |
|--------|----------------------|
| 1 | Blue & White |
| 2 | Orange & White |
| 3 | Green & White |
| 4 | Brown & White |
| 5 | Gray & White |
| 6 | Blue/ White & White |
| 7 | Blue/Orange & White |
| 8 | Blue/Green & White |
| 9 | Blue/Brown & White |
| 10 | Blue/Gray & White |
| 11 | Orange/White & White |
| 12 | Orange/Green & White |
| 13 | Orange/Brown & White |
| 14 | Orange/Gray & White |
| 15 | Green/White & White |
| 16 | Green/Brown & White |
| 17 | Green/Gray & White |

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| | |
|----|---------------------|
| 18 | Brown/White & White |
| 19 | Brown/Gray & White |
| 20 | Gray/White & White |
| 21 | Blue & Red |
| 22 | Orange & Red |
| 23 | Green & Red |
| 24 | Brown & Red |
| 25 | Gray & Red |
| 26 | Blue/White & Red |
| 27 | Blue/Orange & Red |
| 28 | Blue/Green & Red |
| 29 | Blue/Brown & Red |
| 30 | Blue/Gray & Red |
| 31 | Orange/White & Red |
| 32 | Orange/Green & Red |
| 33 | Orange/Brown & Red |
| 34 | Orange/Gray & Red |
| 35 | Green/White & Red |
| 36 | Green/Brown, Red |
| 37 | Green/Gray & Red |
| 38 | Brown/White & Red |
| 39 | Brown/Gray & Red |
| 40 | Gray/White & Red |
| 41 | Blue & Black |
| 42 | Orange & Black |
| 43 | Green & Black |
| 44 | Brown & Black |
| 45 | Gray & Black |
| 46 | Blue/White & Black |
| 47 | Blue/Orange & Black |
| 48 | Blue/Green & Black |
| 49 | Blue/Brown & Black |
| 50 | Blue/Gray & Black |

Mechanical Characteristics (Overall)

| | |
|---|--------------------------|
| Operating Temperature Range: | -30°C To +80°C |
| Non-UL Temperature Rating: | 80°C (UL AWM Style 2464) |
| Bulk Cable Weight: | 285.600 lbs/1000 ft. |
| Max. Recommended Pulling Tension: | 550 lbs. |
| Min. Bend Radius (Install)/Minor Axis: | 7.250 in. |

Applicable Specifications and Agency Compliance (Overall)**Applicable Standards & Environmental Programs**

| | |
|--|----------------------------|
| NEC/(UL) Specification: | CMG |
| CEC/C(UL) Specification: | CMG |
| AWM Specification: | UL Style 2464 (300 V 80°C) |
| CSA Specification: | AWM I A |
| 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): | 04/01/2005 |
| EU Directive 2002/96/EC (WEEE): | Yes |
| EU Directive 2003/11/EC (BFR): | Yes |

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CA Prop 65 (CJ for Wire & Cable): Yes

MII Order #39 (China RoHS): Yes

Flame Test

UL Flame Test: UL1685 FT4 Loading

C(UL) Flame Test: FT4

Plenum/Non-Plenum

Plenum (Y/N): No

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

75

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)

30

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)

50

Nominal Velocity of Propagation:

VP (%)

60

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

24

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)

15.2

Max. Operating Voltage - UL:

Voltage

300 V RMS (UL AWM Style 2464)

Max. Recommended Current:

Current

1.1 Amps per conductor @ 25°C

Put Ups and Colors:

| Item # | Putup | Ship Weight | Color | Notes | Item Desc |
|--------------|----------|-------------|--------|-------|----------------------|
| 9550 060100 | 100 FT | 31.900 LB | CHROME | C | 50 PR #24 PVC FS PVC |
| 9550 0601000 | 1,000 FT | 311.000 LB | CHROME | C D | 50 PR #24 PVC FS PVC |
| 9550 060500 | 500 FT | 153.500 LB | CHROME | C D | 50 PR #24 PVC FS PVC |

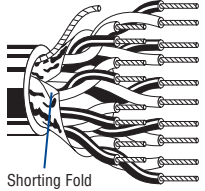
Notes:

C = CRATE REEL PUT-UP.

D = FINAL PUT-UP LENGTH MAY VARY -0% TO +20% FROM LENGTH SHOWN.

Overall Beldfoil® Shield

Computer Cables for EIA RS-232 Applications

| Description | Part No. | UL NEC/ C(UL) CEC Type | No. of Pairs | Color Code | Standard Lengths | | Standard Unit Weight | | Nom. DCR | | Nominal OD | | Nom. Imp. (Ω) | Nom. Vel. of Prop. | Nom. Capacitance | | | | | |
|---|----------|---|-----------------|---|--|----------|---|----------|----------|----------|---|------|---------------------|-----------------------------|------------------|---------------|------------------|----------------|-----|--|
| | | | | | Ft. | m | Lbs. | kg | Cond. | Shield | Inch | mm | | | * pF/ Ft. | * pF/ m | ** pF/ Ft. | ** pF/ m | | |
| 24 AWG Stranded (7x32) TC Conductors • Twisted Pairs • Overall Beldfoil Shield (100% Coverage) • 24 AWG Stranded TC Drain Wire (continued) | | | | | | | | | | | | | | | | | | | | |
| Semi-rigid PVC Insulation • Chrome PVC Jacket | | | | | | | | | | | | | | | | | | | | |
|  <p>Shorting Fold</p> | 9506 | UL AWM Style 2464 (300V 80°C) CSA AWM I A | 6 | See Chart 3 (Tech Info Section) | 100 | 30.5 | 5.0 | 2.3 | 24.0Ω/M' | 16.0Ω/M' | .289 | 7.34 | 75 | 60% | 30 | 98 | 50 | 164 | | |
| | | CEC: | | | U-500 | U-152.4 | 23.0 | 10.4 | 78.7Ω/km | 52.5Ω/km | For Plenum version of 9506, see 82506. | | | | | | | | | |
| | | CMG FT4 | | | 500 | 152.4 | 25.0 | 11.3 | | | | | | | | | | | | |
| | | | | | | 1000 | 304.8 | 45.0 | 20.4 | | | | | | | | | | | |
| | | 9507 | | 7 | See Chart 3 (Tech Info Section) | 100 | 30.5 | 5.5 | 2.5 | 24.0Ω/M' | 16.5Ω/M' | .294 | 7.47 | 75 | 60% | 30 | 98 | 50 | 164 | |
| | CEC: | | U-500 | | | U-152.4 | 25.0 | 11.3 | 78.7Ω/km | 54.1Ω/km | | | | | | | | | | |
| | CMG FT4 | | 500 | | | 152.4 | 27.0 | 12.3 | | | | | | | | | | | | |
| | | | | | | 1000 | 304.8 | 49.0 | 22.2 | | | | | | | | | | | |
| | | 9508 | | 8 | See Chart 3 (Tech Info Section) | 100 | 30.5 | 6.3 | 2.9 | 24.0Ω/M' | 16.5Ω/M' | .324 | 8.23 | 75 | 60% | 30 | 98 | 50 | 164 | |
| | CEC: | | U-500 | | | U-152.4 | 30.5 | 13.8 | 78.7Ω/km | 54.1Ω/km | | | | | | | | | | |
| CMG FT4 | 1000 | | 304.8 | | | 60.0 | 27.2 | | | | | | | | | | | | | |
| | | | | | 100 | 30.5 | 6.9 | 3.1 | 24.0Ω/M' | 16.5Ω/M' | .334 | 8.48 | 75 | 60% | 30 | 98 | 50 | 164 | | |
| CEC: | U-500 | U-152.4 | 33.5 | 15.2 | 78.7Ω/km | 54.1Ω/km | For Plenum version of 9509, see 82509. | | | | | | | | | | | | | |
| CMG FT4 | 1000 | 304.8 | 67.0 | 30.4 | | | | | | | | | | | | | | | | |
| | 9510 | | 10 | See Chart 3 (Tech Info Section) | 100 | 30.5 | 7.5 | 3.4 | 24.0Ω/M' | 16.5Ω/M' | .368 | 9.34 | 75 | 60% | 30 | 98 | 50 | 164 | | |
| CEC: | | U-500 | | | U-152.4 | 36.5 | 16.6 | 78.7Ω/km | 54.1Ω/km | | | | | | | | | | | |
| CMG FT4 | | 1000 | | | 304.8 | 74.0 | 33.6 | | | | | | | | | | | | | |
| | 9515 | | 15 | See Chart 3 (Tech Info Section) | 100 | 30.5 | 10.4 | 4.7 | 24.0Ω/M' | 16.5Ω/M' | .417 | 10.6 | 75 | 60% | 30 | 98 | 50 | 164 | | |
| CEC: | | U-500 | | | U-152.4 | 52.0 | 23.6 | 78.7Ω/km | 54.1Ω/km | | | | | | | | | | | |
| CMG FT4 | | 1000 | | | 304.8 | 102.0 | 46.4 | | | | | | | | | | | | | |
| | 9519 | | 19 | See Chart 3 (Tech Info Section) | 100 | 30.5 | 12.8 | 5.8 | 24.0Ω/M' | 16.5Ω/M' | .448 | 11.4 | 75 | 60% | 30 | 98 | 50 | 164 | | |
| CEC: | | U-500 | | | U-152.4 | 61.5 | 28.0 | 78.7Ω/km | 54.1Ω/km | | | | | | | | | | | |
| CMG FT4 | | 1000 | | | 304.8 | 122.0 | 55.5 | | | | | | | | | | | | | |
| | 9525 | | 25 | See Chart 3 (Tech Info Section) | 100 | 30.5 | 16.0 | 7.3 | 24.0Ω/M' | 16.5Ω/M' | .503 | 12.8 | 75 | 60% | 30 | 98 | 50 | 164 | | |
| CEC: | | U-500 | | | U-152.4 | 79.5 | 36.1 | 78.7Ω/km | 54.1Ω/km | | | | | | | | | | | |
| CMG FT4 | | 1000 | | | 304.8 | 155.0 | 70.3 | | | | | | | | | | | | | |
| | 9550 | | 50 | Request Technical Bulletin T/8-4 | 100 | 30.5 | 31.9 | 14.5 | 24.0Ω/M' | 15.2Ω/M' | .708 | 18.0 | 75 | 60% | 30 | 98 | 50 | 164 | | |
| CEC: | | 500† | | | 152.4 | 153.5 | 69.8 | 78.7Ω/km | 49.9Ω/km | | | | | | | | | | | |
| CMG FT4 | | 1000† | | | 304.8 | 311.0 | 141.4 | | | | | | | | | | | | | |

DCR = DC Resistance • TC = Tinned Copper

*Capacitance between conductors.

**Capacitance between one conductor and other conductors connected to shield.

† Spools are one piece, but length may vary -0% to +20% from length shown.