



**Product:** [9641](#) 

IEEE-488, #26-6pr+10c, #24-1c, SR-PVC, O/A Foil+Braid, PVC Jkt, CMG

## Product Description

Computer EIA RS-488 Cable, 26 AWG stranded (7x34) and 24 AWG stranded (7x32) tinned copper conductors, semi-rigid PVC insulation, overall Beldfoil® (100% Coverage) + Tinned copper braid shield (90% Coverage), drain wire, PVC jacket.

## Technical Specifications

### Product Overview

|                        |                                                                                                                                                                      |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable Applications: | IEEE 488 interface; computer communications; low voltage analog signals (4-20ma, 0-10v, ...); low voltage digital control (24v, ...); line level audio; panel wiring |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Physical Characteristics (Overall)

#### Conductor

| AWG | Stranding | Material           | No. of Conductors | No. of Pairs |
|-----|-----------|--------------------|-------------------|--------------|
| 26  | 7x34      | TC - Tinned Copper |                   | 6            |
| 26  | 7x34      | TC - Tinned Copper | 10                |              |
| 24  | 7x32      | TC - Tinned Copper | 1                 |              |

|                  |    |
|------------------|----|
| Conductor Count: | 23 |
|------------------|----|

#### Insulation

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

#### Color Chart

| Number             | Color                            |
|--------------------|----------------------------------|
| 1 26AWG Pair       | Blue & White/Gray                |
| 2 26AWG Pair       | Purple & White/Black/Brown       |
| 3 26AWG Pair       | Gray & White/Black/Red           |
| 4 26AWG Pair       | White & White/Black/Orange       |
| 5 26AWG Pair       | White/Black & White/Black/Yellow |
| 6 26AWG Pair       | White/Brown & White/Black/Green  |
| 7 26AWG Conductor  | Brown                            |
| 8 26AWG Conductor  | Red                              |
| 9 26AWG Conductor  | Orange                           |
| 10 26AWG Conductor | Yellow                           |
| 11 26AWG Conductor | Lt. Green                        |
| 12 26AWG Conductor | White/Orange                     |
| 13 26AWG Conductor | White/Yellow                     |
| 14 26AWG Conductor | White/Green                      |
| 15 26AWG Conductor | White/Blue                       |
| 16 26AWG Conductor | White/Purple                     |
| 17 24AWG Conductor | White/Black/Blue                 |

#### Outer Shield Material

| Type  | Material           | Coverage [%] | Drainwire Material | Drainwire AWG | Drainwire Construction n x D |
|-------|--------------------|--------------|--------------------|---------------|------------------------------|
| Tape  | Alum / Poly        | 100 %        | TC - Tinned Copper | 26            | 7x34                         |
| Braid | TC - Tinned Copper | 90 %         |                    |               |                              |

Outer Jacket Material

| Material                 | Nominal Diameter | Separator Material |
|--------------------------|------------------|--------------------|
| PVC - Polyvinyl Chloride | 0.35 in          | Polyester Tape     |

Electrical Characteristics

Conductor DCR

| Element | Nominal Conductor DCR | Nominal Outer Shield DCR |
|---------|-----------------------|--------------------------|
| 24 AWG  | 23.3 Ohm/1000ft       | 2.6 Ohm/1000ft           |
| 26 AWG  | 37.3 Ohm/1000ft       |                          |

Current

| Max. Recommended Current [A]             |
|------------------------------------------|
| 0.6 (26 AWG) Amps per conductor @ 25°C A |
| 1.1 Amps per conductor @ 25°C (24 AWG)   |

Voltage

| UL Voltage Rating             |
|-------------------------------|
| 300 V RMS (UL AWM Style 2464) |

Temperature Range

|                       |                          |
|-----------------------|--------------------------|
| UL Temp Rating:       | 80°C (UL AWM Style 2464) |
| Operating Temp Range: | -20°C To +80°C           |

Mechanical Characteristics

|                                  |               |
|----------------------------------|---------------|
| Bulk Cable Weight:               | 71 lbs/1000ft |
| Max Recommended Pulling Tension: | 140 lbs       |
| Min Bend Radius/Minor Axis:      | 3.5 in        |

Standards

|                          |                   |
|--------------------------|-------------------|
| NEC/(UL) Specification:  | CMG               |
| CEC/C(UL) Specification: | CMG               |
| UL AWM Style:            | 2464 (300 V 80°C) |
| CSA AWM Specification:   | AWM I A           |
| IEEE Specification:      | 488               |

Applicable Environmental and Other Programs

|                                       |                               |
|---------------------------------------|-------------------------------|
| 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:                           | Yes                           |
| EU RoHS Compliance Date (yyyy-mm-dd): | 2005-10-01                    |
| MII Order #39 (China RoHS):           | Yes                           |

Flammability, LS0H, Toxicity Testing

|                     |                               |
|---------------------|-------------------------------|
| C(UL) Flammability: | FT4                           |
| UL voltage rating:  | 300 V RMS (UL AWM Style 2464) |

Plenum/Non-Plenum

|               |    |
|---------------|----|
| Plenum (Y/N): | No |
|---------------|----|

Part Number

Variants

| Item #       | Color | Putup Type | Length   | UPC          |
|--------------|-------|------------|----------|--------------|
| 9641 0081000 | Gray  | Reel       | 1,000 ft | 612825256861 |

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

History

|                      |                                                  |
|----------------------|--------------------------------------------------|
| Update and Revision: | Revision Number: 0.293 Revision Date: 04-28-2020 |
|----------------------|--------------------------------------------------|

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