

## 9525 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
25	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: 0.503 in.

#### Pair

##### Pair Color Code Chart:

Number	Color
1	Black & Red
2	Black & White
3	Black & Green
4	Black & Blue
5	Black & Yellow
6	Black & Brown
7	Black & Orange
8	Red & White
9	Red & Green
10	Red & Blue
11	Red & Yellow
12	Red & Brown
13	Red & Orange
14	Green & White
15	Green & Blue
16	Green & Yellow
17	Green & Brown

## 9525 Multi-Conductor - Computer Cable for EIA RS-232 Applications

18	Green & Orange
19	White & Blue
20	White & Yellow
21	White & Brown
22	White & Orange
23	Blue & Yellow
24	Blue & Brown
25	Blue & Orange

### Mechanical Characteristics (Overall)

**Operating Temperature Range:** -30°C To +80°C

**Non-UL Temperature Rating:** 80°C (UL AWM Style 2464)

**Bulk Cable Weight:** 148.600 lbs/1000 ft.

**Max. Recommended Pulling Tension:** 275 lbs.

**Min. Bend Radius (Install)/Minor Axis:** 5.200 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

**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

## 9525 Multi-Conductor - Computer Cable for EIA RS-232 Applications

**Nom. Conductor DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)

24

**Nominal Outer Shield DC Resistance:**

DCR @ 20°C (Ohm/1000 ft)

16.5

**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:

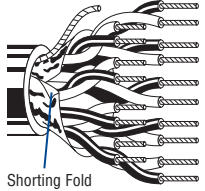
Item #	Putup	Ship Weight	Color	Notes	Item Desc
9525 060100	100 FT	16.000 LB	CHROME	C	25 PR #24 PVC SHLD PVC
9525 0601000	1,000 FT	155.000 LB	CHROME	C	25 PR #24 PVC SHLD PVC
9525 060500	500 FT	79.500 LB	CHROME	C	25 PR #24 PVC SHLD PVC

**Notes:**

C = CRATE REEL PUT-UP.

# 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		
<b>24 AWG Stranded (7x32) TC Conductors • Twisted Pairs • Overall Beldfoil Shield (100% Coverage) • 24 AWG Stranded TC Drain Wire (continued)</b>																				
<b>Semi-rigid PVC Insulation • Chrome PVC Jacket</b>																				
 <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.