

9509 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
9	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: 0.334 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

Mechanical Characteristics (Overall)

Operating Temperature Range:	-30°C To +80°C
Non-UL Temperature Rating:	80°C (UL AWM Style 2464)
Bulk Cable Weight:	62.200 lbs/1000 ft.
Max. Recommended Pulling Tension:	99 lbs.

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Min. Bend Radius (Install)/Minor Axis: 3.500 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
Plenum Number:	82509

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)
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

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Put Ups and Colors:

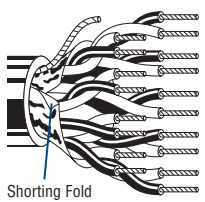
Item #	Putup	Ship Weight	Color	Notes	Item Desc
9509 060100	100 FT	7.000 LB	CHROME		9 PR #24 PVC FS PVC
9509 0601000	1,000 FT	69.000 LB	CHROME	C	9 PR #24 PVC FS PVC
9509 060500	500 FT	34.000 LB	CHROME	C	9 PR #24 PVC FS PVC

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	
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: CMG FT4			U-500	U-152.4	23.0	10.4	78.7Ω/km	52.5Ω/km									
						500	152.4	25.0	11.3						For Plenum version of 9506, see 82506.				
						1000	304.8	45.0	20.4										
						1000	304.8	47.0	21.4										
		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: CMG FT4		U-500			U-152.4	25.0	11.3	78.7Ω/km	54.1Ω/km									
						500	152.4	27.0	12.3										
						1000	304.8	49.0	22.2										
						1000	304.8	51.0	23.1										
	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: CMG FT4		U-500			U-152.4	30.5	13.8	78.7Ω/km	54.1Ω/km										
					500	152.4	30.5	13.8											
					1000	304.8	60.0	27.2											
	9509		9	See Chart 3 (Tech Info Section)	100	30.5	6.9	3.1	24.0Ω/M'	16.5Ω/M'	.334	8.48	75	60%	30	98	50	164	
CEC: CMG FT4		U-500			U-152.4	33.5	15.2	78.7Ω/km	54.1Ω/km										
					500	152.4	33.5	15.2						For Plenum version of 9509, see 82509.					
					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: CMG FT4		U-500			U-152.4	36.5	16.6	78.7Ω/km	54.1Ω/km										
					500	152.4	36.5	16.6											
					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: CMG FT4		U-500			U-152.4	52.0	23.6	78.7Ω/km	54.1Ω/km										
					500	152.4	52.0	23.6											
					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: CMG FT4		U-500			U-152.4	61.5	28.0	78.7Ω/km	54.1Ω/km										
					500	152.4	61.5	28.0											
					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: CMG FT4		U-500			U-152.4	79.5	36.1	78.7Ω/km	54.1Ω/km										
					500	152.4	79.5	36.1											
					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: CMG FT4		500†			152.4	153.5	69.8	78.7Ω/km	49.9Ω/km										
					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.