Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION

9507 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
7	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:	0.294 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

Mechanical Characteristics (Overall)

Operating Temperature Range:	-30°C To +80°C
Non-UL Temperature Rating:	80°C (UL AWM Style 2464)
Bulk Cable Weight:	49.300 lbs/1000 ft.
Max. Recommended Pulling Tension:	77 lbs.
Min. Bend Radius (Install)/Minor Axis:	3 in.

9507 Multi-Conductor - Computer Cable for EIA RS-232 Applications

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

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
1.5 Amps per conductor @ 25°C

Put Ups and Colors:

9507 Multi-Conductor - Computer Cable for EIA RS-232 Applications

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9507 060U1000	1,000 FT	50.000 LB	CHROME		7 PR #24 PVC FS PVC
9507 060U500	500 FT	25.500 LB	CHROME		7 PR #24 PVC FS PVC
9507 060100	100 FT	5.600 LB	CHROME		7 PR #24 PVC FS PVC
9507 0601000	1,000 FT	52.000 LB	CHROME	C	7 PR #24 PVC FS PVC
9507 060500	500 FT	27.500 LB	CHROME	C	7 PR #24 PVC FS PVC

Notes:
C = CRATE REEL PUT-UP.

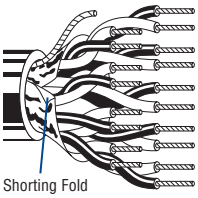
Overall Beldfoil® Shield

Computer Cables for EIA RS-232 Applications

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

UL AWM Style 2464
(300V 80°C)
CSA AWM I A



Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths Ft.	Standard Lengths m	Standard Unit Weight Lbs.	Standard Unit Weight kg	Nom. DCR Cond.	Nom. DCR Shield	Nominal OD Inch	Nominal OD mm	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nom. Capacitance * pF/ Ft.	Nom. Capacitance * pF/ m	Nom. Capacitance ** pF/ Ft.	Nom. Capacitance ** pF/ m
9506	NEC: CMG CEC: CMG FT4	6	See Chart 3 (Tech Info Section)	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	5.0 23.0 25.0 45.0 47.0	2.3 10.4 11.3 20.4 21.4	24.0Ω/M′ 78.7Ω/km	16.0Ω/M′ 52.5Ω/km	.289	7.34	75	60%	30	98	50	164
														For Plenum version of 9506, see 82506.			
9507	NEC: CMG CEC: CMG FT4	7	See Chart 3 (Tech Info Section)	100 U-500 500 U-1000 1000	30.5 U-152.4 152.4 U-304.8 304.8	5.5 25.0 27.0 49.0 51.0	2.5 11.3 12.3 22.2 23.1	24.0Ω/M′ 78.7Ω/km	16.5Ω/M′ 54.1Ω/km	.294	7.47	75	60%	30	98	50	164
9508	NEC: CMG CEC: CMG FT4	8	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	6.3 30.5 60.0	2.9 13.8 27.2	24.0Ω/M′ 78.7Ω/km	16.5Ω/M′ 54.1Ω/km	.324	8.23	75	60%	30	98	50	164
9509	NEC: CMG CEC: CMG FT4	9	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	6.9 33.5 67.0	3.1 15.2 30.4	24.0Ω/M′ 78.7Ω/km	16.5Ω/M′ 54.1Ω/km	.334	8.48	75	60%	30	98	50	164
														For Plenum version of 9509, see 82509.			
9510	NEC: CMG CEC: CMG FT4	10	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	7.5 36.5 74.0	3.4 16.6 33.6	24.0Ω/M′ 78.7Ω/km	16.5Ω/M′ 54.1Ω/km	.368	9.34	75	60%	30	98	50	164
9515	NEC: CMG CEC: CMG FT4	15	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	10.4 52.0 102.0	4.7 23.6 46.4	24.0Ω/M′ 78.7Ω/km	16.5Ω/M′ 54.1Ω/km	.417	10.6	75	60%	30	98	50	164
9519	NEC: CMG CEC: CMG FT4	19	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	12.8 61.5 122.0	5.8 28.0 55.5	24.0Ω/M′ 78.7Ω/km	16.5Ω/M′ 54.1Ω/km	.448	11.4	75	60%	30	98	50	164
9525	NEC: CMG CEC: CMG FT4	25	See Chart 3 (Tech Info Section)	100 500 1000	30.5 152.4 304.8	16.0 79.5 155.0	7.3 36.1 70.3	24.0Ω/M′ 78.7Ω/km	16.5Ω/M′ 54.1Ω/km	.503	12.8	75	60%	30	98	50	164
9550	NEC: CMG CEC: CMG FT4	50	Request Technical Bulletin T/8-4	100 500† 1000†	30.5 152.4 304.8	31.9 153.5 311.0	14.5 69.8 141.4	24.0Ω/M′ 78.7Ω/km	15.2Ω/M′ 49.9Ω/km	.708	18.0	75	60%	30	98	50	164

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.