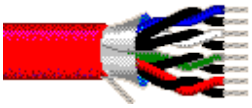
Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION

89504 Multi-Conductor - Computer Cable for EIA RS-232 Applications



Description:

24 AWG stranded (7x32) tinned copper conductors, plenum, FEP insulation, twisted pair, overall Beldfoil shield (100% coverage), 24 AWG stranded TC drain wire, FEP jacket

Physical Characteristics (Overall)

Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material
4	24	7x32	TC - Tinned Copper

Insulation

Insulation Material:

Insulation Material	Wall Thickness (in.)
FEP - Fluorinated Ethylene Propylene	.006

Outer Shield

Outer Shield Material:

Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
Beldfoil®	Tape	Aluminum Foil-Polyester Tape	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	Nom. Wall Thickness (in.)
FEP - Fluorinated Ethylene Propylene	.014

Overall Cabling

Overall Nominal Diameter:	0.192 in.

Pair

Pair Color Code Chart:

Number	Color
1	Black & White
2	Black & Red
3	Black & Green
4	Black & Blue

Pair Lay Length & Direction:

Lay Length (in.)
1.000

Mechanical Characteristics (Overall)

Operating Temperature Range:	-70°C To +200°C
Bulk Cable Weight:	26.300 lbs/1000 ft.
Max. Recommended Pulling Tension:	50 lbs.
Min. Bend Radius (Install)/Minor Axis:	1.900 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMP
CEC/C(UL) Specification:	CMP
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:	NFPA 262
C(UL) Flame Test:	FT6

Plenum/Non-Plenum

Plenum (Y/N):	Yes
Non-Plenum Number:	9504

Electrical Characteristics (Overall)

Nom. Inductance:

Inductance (µH/ft)
.17

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/ft)
21

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/ft)
40

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
24.1

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
15.9

Max. Operating Voltage - UL:

Voltage
300 V RMS

Max. Recommended Current:

Current
1.5 Amps per conductor @ 25°C

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
89504 0021000	1,000 FT	29.000 LB	RED	C	4 PR #24 FS FEP FEP
89504 002500	500 FT	13.000 LB	RED	C	4 PR #24 FS FEP FEP

Notes:
C = CRATE REEL PUT-UP.

Overall Beldfoil® Shield

Computer Cables for EIA RS-232 Applications
Plenum-Rated

Description	Part No.	UL NEC/ C(UL) CEC Type	No. of Pairs	Color Code	Standard Lengths		Standard Unit Weight		Insulation Thickness		Jacket Thickness		Nominal OD		Nominal Capacitance			
					Ft.	m	Lbs.	kg	Inch	mm	Inch	mm	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																		
Plenum • FEP Insulation • Natural Flamarrest® Jacket																		
300V RMS 	**82641**	NEC: CMP CEC: CMP FT6	1	See Chart 3 (Tech Info Section)	U-1000† 1000†	U-304.8 304.8	9.0 8.0	4.1 3.6	.006	.15	.014	.36	.106	2.69	31	102	59	194
	82502	NEC: CMP CEC: CMP FT6	2	See Chart 3 (Tech Info Section)	U-500† U-1000† 1000†	U-152.4 U-304.8 304.8	8.0 16.0 14.0	3.6 7.3 6.4	.006	.15	.014	.36	.162	4.11	25	82	45	148
	82503	NEC: CMP CEC: CMP FT6	3	See Chart 3 (Tech Info Section)	U-1000† 1000†	U-304.8 304.8	19.0 18.0	8.6 8.2	.006	.15	.014	.36	.169	4.29	25	82	45	148
	82504	NEC: CMP CEC: CMP FT6	4	See Chart 3 (Tech Info Section)	U-1000† 1000†	U-304.8 304.8	24.0 26.0	10.9 11.8	.006	.15	.014	.36	.193	4.90	25	82	45	148
	82505	NEC: CMP CEC: CMP FT6	5	See Chart 3 (Tech Info Section)	U-1000† 1000†	U-304.8 304.8	29.0 31.0	13.2 14.0	.006	.15	.015	.38	.196	4.98	25	82	45	148
	82506	NEC: CMP CEC: CMP FT6	6	See Chart 3 (Tech Info Section)	U-500† U-1000† 1000†	U-152.4 U-304.8 304.8	17.5 34.0 35.0	8.0 15.5 15.9	.006	.15	.015	.38	.209	5.31	25	82	45	148
	82509	NEC: CMP CEC: CMP FT6	9	See Chart 3 (Tech Info Section)	1000†	304.8	49.0	22.3	.006	.15	.015	.38	.246	6.25	23	75	42	138
Plenum • FEP Insulation • Red FEP Jacket																		
300V RMS 	**88641**	NEC: CMP CEC: CMP FT6	1	See Chart 3 (Tech Info Section)	100 500† 1000†	30.5 152.4 304.8	2.4 6.0 9.0	1.1 2.7 4.1	.006	.15	.014	.36	.106	2.69	31	102	59	194
	89503	NEC: CMP CEC: CMP FT6	3	See Chart 3 (Tech Info Section)	100 500† 1000†	30.5 152.4 304.8	4.0 10.5 21.0	1.8 4.8 9.5	.006	.15	.014	.36	.175	4.45	21	69	40	131
	89504	NEC: CMP CEC: CMP FT6	4	See Chart 3 (Tech Info Section)	500† 1000†	152.4 304.8	13.0 29.0	6.0 13.1	.006	.15	.014	.36	.192	4.88	21	69	40	131
	89505	NEC: CMP CEC: CMP FT6	5	See Chart 3 (Tech Info Section)	100 1000†	30.5 304.8	4.9 33.0	2.2 15.0	.006	.15	.014	.36	.197	5.00	21	69	40	131

TC = Tinned Copper

*Capacitance between conductors.
**Capacitance between one conductor and other conductors connected to shield.
† Spools and/or UnReel® cartons are one piece, but length may vary ±10% for spools and ±5% for UnReel from length shown.