

9519 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
19	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: 0.448 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

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18	Green & Orange
19	White & Blue

Mechanical Characteristics (Overall)

Operating Temperature Range:	-30°C To +80°C
Non-UL Temperature Rating:	80°C (UL AWM Style 2464)
Bulk Cable Weight:	114.800 lbs/1000 ft.
Max. Recommended Pulling Tension:	209 lbs.
Min. Bend Radius (Install)/Minor Axis:	4.500 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
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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)

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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
9519 060100	100 FT	12.800 LB	CHROME	C	19 PR #24 PVC FS PVC
9519 0601000	1,000 FT	122.000 LB	CHROME	C	19 PR #24 PVC FS PVC
9519 060500	500 FT	61.500 LB	CHROME	C	19 PR #24 PVC FS PVC

Notes:

C = CRATE REEL PUT-UP.

Introduction

Belden® paired cable products are manufactured in a variety of gage sizes, dimensions, insulation materials, shielding configurations, and jacketing materials including Plenum and High-Temperature versions to meet the technical requirements of many different types of systems.

Paired cables allow balanced signal transmission, which results in lower crosstalk through common mode rejection. Due to the improved noise immunity of twisted pairs, they generally permit higher data speeds than multi-conductor cables.

As an aid to proper cable selection, both the suggested working voltages and the maximum temperature ratings are indicated for each applicable paired cable selection.

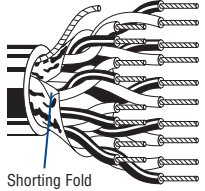
Most of our paired cables are available from stock. Many of these are available off the shelf from distributors. If you have a new or unusual application or you cannot find a paired cable in this catalog section that meets your technical requirements, contact Technical Support at 1-800-BELDEN-1.

Paired Cables Packaging

Belden's unique UnReel® cable dispenser is available for many of the paired cable products listed in this section. The letter "U" before the specified put-up length denotes UnReel packaging.

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>UL AWM Style 2464 (300V 80°C) CSA AWM I A</p> <p>Shorting Fold</p>	9506	NEC:	6	See	100	30.5	5.0	2.3	24.0Ω/M'	16.0Ω/M'	.289	7.34	75	60%	30	98	50	164	
		CMG		Chart 3		U-500	U-152.4	23.0	10.4	78.7Ω/km									52.5Ω/km
		CEC:		(Tech Info		500	152.4	25.0	11.3										
		CMG FT4		Section)		U-1000	U-304.8	45.0	20.4										
					1000	304.8	47.0	21.4							For Plenum version of 9506, see 82506.				
		9507	NEC:	7	See	100	30.5	5.5	2.5	24.0Ω/M'	16.5Ω/M'	.294	7.47	75	60%	30	98	50	164
	CMG		Chart 3		U-500		U-152.4	25.0	11.3	78.7Ω/km	54.1Ω/km								
	CEC:		(Tech Info		500		152.4	27.0	12.3										
	CMG FT4		Section)		U-1000		U-304.8	49.0	22.2										
					1000	304.8	51.0	23.1											
	9508	NEC:	8	See	100	30.5	6.3	2.9	24.0Ω/M'	16.5Ω/M'	.324	8.23	75	60%	30	98	50	164	
CMG		Chart 3		500		152.4	30.5	13.8	78.7Ω/km	54.1Ω/km									
CEC:		(Tech Info		1000		304.8	60.0	27.2											
CMG FT4		Section)																	
	9509	NEC:	9	See	100	30.5	6.9	3.1	24.0Ω/M'	16.5Ω/M'	.334	8.48	75	60%	30	98	50	164	
CMG		Chart 3		500		152.4	33.5	15.2	78.7Ω/km	54.1Ω/km									
CEC:		(Tech Info		1000		304.8	67.0	30.4											
CMG FT4		Section)																	
														For Plenum version of 9509, see 82509.					
	9510	NEC:	10	See	100	30.5	7.5	3.4	24.0Ω/M'	16.5Ω/M'	.368	9.34	75	60%	30	98	50	164	
CMG		Chart 3		500		152.4	36.5	16.6	78.7Ω/km	54.1Ω/km									
CEC:		(Tech Info		1000		304.8	74.0	33.6											
CMG FT4		Section)																	
	9515	NEC:	15	See	100	30.5	10.4	4.7	24.0Ω/M'	16.5Ω/M'	.417	10.6	75	60%	30	98	50	164	
CMG		Chart 3		500		152.4	52.0	23.6	78.7Ω/km	54.1Ω/km									
CEC:		(Tech Info		1000		304.8	102.0	46.4											
CMG FT4		Section)																	
	9519	NEC:	19	See	100	30.5	12.8	5.8	24.0Ω/M'	16.5Ω/M'	.448	11.4	75	60%	30	98	50	164	
CMG		Chart 3		500		152.4	61.5	28.0	78.7Ω/km	54.1Ω/km									
CEC:		(Tech Info		1000		304.8	122.0	55.5											
CMG FT4		Section)																	
	9525	NEC:	25	See	100	30.5	16.0	7.3	24.0Ω/M'	16.5Ω/M'	.503	12.8	75	60%	30	98	50	164	
CMG		Chart 3		500		152.4	79.5	36.1	78.7Ω/km	54.1Ω/km									
CEC:		(Tech Info		1000		304.8	155.0	70.3											
CMG FT4		Section)																	
	9550	NEC:	50	Request	100	30.5	31.9	14.5	24.0Ω/M'	15.2Ω/M'	.708	18.0	75	60%	30	98	50	164	
CMG		Technical		500†		152.4	153.5	69.8	78.7Ω/km	49.9Ω/km									
CEC:		Bulletin		1000†		304.8	311.0	141.4											
CMG FT4		T/8-4																	

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.