

**9842****Multi-Conductor - Low Capacitance
Computer Cable for EIA RS-485 Applications****Description**

24 AWG stranded (7x32) TC conductors, polyethylene insulation, twisted pairs, overall Beldfoil® (100% coverage) + TC braid shield (90% coverage), 24 AWG stranded TC drain wire, PVC jacket.

Put Ups and Colours

Item #	Putup	Ship Weight	Jacket Colour	Notes	Item Description
9842 060100	100 FT	5.800 LB	CHROME		2 PR #24 PE SH PVC CHR
9842 0601000	1,000 FT	57.000 LB	CHROME	C	2 PR #24 PE SH PVC CHR
9842 060500	500 FT	29.500 LB	CHROME	C	2 PR #24 PE SH PVC CHR

Notes:

C = Create Reel Put-up

Physical Characteristics (overall)**Conductor – AWG**

# Pairs	AWG	Stranding	Conductor Material
2.000	24	7x32	TC – Tinned Copper

Insulation – Insulation Material

Ins Material
PE – Polyethylene

Outer Shield – Outer Shield Material

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Beldfold®	Tape	Aluminium Foil-Polyester Tape	100
2		Braid	TC – Tinned Copper	90

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 – Polyvinylchloride

Overall Cabling – Overall Nominal Diameter: 0.340 in.**Pair Colour Code Chart**

Number	Colour
1	White/Blue and Blue/White
2	White/Orange and Orange/White

Pair Lay Length & Direction

Lay Length (In.)	Lay Length (In.)	Lay Length	Twists/ft. (twist/ft)
1.000	Left Hand Lay	12.000	12.000

Mechanical Characteristics (overall)

Operating Temperature Range	-30°C to +80°C
UL Temperature Range	80°C
Bulk Cable Weight	62 lbs/1000ft
Max. Recommended Pulling Tension	87 lbs
Min. Bend Radius (Install)/Minor Axis	3.500 In.

Applicable Specifications and Agency Compliance (overall)**Application**

NEC (UL) Specification	CM
CEC/C (UL) Specification	CM
CSA Specification	UL Style 2919 (30 V 80°C)
EU CE Mark	
EU RoHS Compliant (commence date: dd/mm/yyyy)	(01/01/2004)

Plenum/Non-Plenum

Plenum	82842
Plenum Number	

Electrical Characteristics (overall)

Nom. Characteristics Impedance

Impedance (Ohm.)
120.000

Nom. Capacitance Conductor to Conductor

Capacitance (pF/ft)
12.800

Nom. Capacitance Conductor to Other Conductor & Shield

Capacitance (pF/ft)
23.000

Nominal Velocity of Propagation

VP (%)
66

Nominal Delay

Delay (ns/ft)
1.600

Nominal Conductor DC Resistance

DCR @ 20°C (Ohm/1000 ft)
24.000

Nominal Outer Shield DC Resistance

DCR @ 20°C (Ohm/1000 ft)
2.200

Nominal Attenuation

Attenuation (dB/100 ft.)
0.6 (@ 1 MHz)

Max. Operating Voltage – UL

Voltage
300 V RMS

Max. Recommended Current

Current
2.1 Amps per conductor @ 25°C