



# 9841

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
9841 060100	100 FT	4.300 LB	CHROME		1 PR #24 PE SH PVC CHR
9841 0601000	1,000 FT	40.000 LB	CHROME	C	1 PR #24 PE SH PVC CHR
9841 060500	500 FT	20.000 LB	CHROME	C	1 PR #24 PE SH PVC CHR

### Notes:

C = Create Reel Put-up

### Physical Characteristics (overall)

#### Conductor – AWG

# Pairs	AWG	Stranding	Conductor Material
1.000	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:** 0.232 in.

### Pair Colour Code Chart

Colour
White/Blue and Blue/White

### Pair Lay Length & Direction

Lay Length (In.)	Lay Length (In.)	Lay Length	Twists/ft. (twist/ft)
2.500	Left Hand Lay	4.800	4.800

### Mechanical Characteristics (overall)

Operating Temperature Range	-30°C to +80°C
UL Temperature Range	80°C
Bulk Cable Weight	36 lbs/1000ft
Max. Recommended Pulling Tension	72.300 lbs
Min. Bend Radius (Install)/Minor Axis	2.500 In.

### Applicable Specifications and Agency Compliance (overall)

#### Application

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

#### Plenum/Non-Plenum

Plenum	82841, 89841
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)
3.400

**Nominal Attenuation**

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

**Max. Operating Voltage – UL**

Voltage
300 V RMS
30 V RMS (UL AWM Style 2919)

**Max. Recommended Current**

Current
2.1 Amps per conductor @ 25°C