



Product: [89696](#)

POS Cable, #22-2pr, BC, FEP, O/A Foil+55% TC Braid, FEP Jkt, CMP

Product Description

Computer POS Cable, 22 AWG solid bare copper conductors, solid FEP insulation, twisted pairs, overall Beldfoil® (100% coverage) + tinned copper braid shield (55% coverage), 22 AWG solid tinned copper drain wire, FEP jacket, plenum rated

Technical Specifications

Product Overview

Suitable Applications:	point of sale; rs-485 applications; extreme high/low temperature environments; computer communication; low voltage analog signals (4-20ma, 0-10v, ...); low voltage digital control (24v, ...); line level audio; panel wiring
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Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	No. of Pairs
22	Solid	TC - Tinned Copper	2

Conductor Count:	4
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Insulation

Material	Material Trade Name
FEP - Fluorinated Ethylene Propylene	Teflon®

Color Chart

Number	Color
1	Blue & White with Blue Stripe
2	Orange & White with Orange Stripe

Outer Shield

Type	Layer	Material	Material Trade Name	Coverage [%]	Drainwire Material	Drainwire AWG	Drainwire Construction n x D
Tape	1	Bi-Laminate (Alum+Poly)	Beldfoil®	100%	TC - Tinned Copper	22	Solid
Braid	2	Tinned Copper (TC)		55%			

Table Notes:	Polyester Tape
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Outer Jacket

Material	Material Trade Name	Nominal Diameter
FEP - Fluorinated Ethylene Propylene	Teflon®	0.262 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
16.5 Ohm/1000ft	4.2 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
15.5 pF/ft	27 pF/ft

Inductance

Nominal Inductance
0.15 µH/ft

Impedance

Nominal Characteristic Impedance
100 Ohm

Delay

Max. Delay Skew	Nominal Delay	Nominal Velocity of Propagation (VP) [%]
69.5 ns/100m	1.46 ns/ft	70%

High Frequency

Frequency [MHz]
0.3 MHz
0.6 MHz
1 MHz
1.5 MHz

Voltage

UL Voltage Rating
300 V RMS

Temperature Range

Operating Temperature Range:	-70°C To +200°C
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Mechanical Characteristics

Bulk Cable Weight:	41.1 lbs/1000ft
Max. Pull Tension:	65 lbs
Min. Bend Radius/Minor Axis:	5.5 in

Standards

NEC/(UL) Compliance:	CMP
CEC/C(UL) Compliance:	CMP

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (RoHS 2):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
MII Order #39 (China RoHS):	Yes

Flammability, LSOH, Toxicity Testing

UL Flammability:	NFPA 262 Plenum Flame Test (UL910)
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	Yes
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Related Part Numbers

Non-Plenum Number:	9696
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Variants

Item #	Color	UPC
89696 0101000	Black	612825221081

Footnote:	C - CRATE REEL PUT-UP.
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Product Notes

Notes:	Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.
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History

Update and Revision:	Revision Number: 0.335 Revision Date: 05-05-2023
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