



Product: [89855](#) 

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

Product Description

Computer POS Cable, 22 AWG solid tinned copper conductors, solid FEP insulation, twisted pairs, overall Beldfoil® (100% coverage) + tinned copper braid shield (55% coverage) + polyester tape, 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	Nominal Wall Thickness
FEP - Fluorinated Ethylene Propylene	0.016 in

Color Chart

Number	Color
1	Red & Blue
2	Black & Yellow

Color Chart 2

Number
24
24
24
24

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	Nominal Diameter	Nominal Wall Thickness
FEP - Fluorinated Ethylene Propylene	0.272 in	0.016 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR
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16.5 Ohm/1000ft	4.9 Ohm/1000ft
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Capacitance

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

Impedance

Nominal Characteristic Impedance
100 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
0.3 MHz	0.4 dB/100ft
0.6 MHz	0.53 dB/100ft
1 MHz	0.65 dB/100ft
1.5 MHz	0.78 dB/100ft

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

Current

Max. Recommended Current [A]
2.2 Amps per Conductor at 25°C

Voltage

UL Voltage Rating
300 V RMS

Temperature Range

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

Bulk Cable Weight:	38 lbs/1000ft
Max. Pull Tension:	65 lbs
Min. Bend Radius/Minor Axis:	2.75 in

Standards

NEC Articles:	Article 800
NEC/(UL) Compliance:	CMP
CEC/C(UL) Compliance:	CMP
CPR Euroclass:	Eca

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, LS0H, Toxicity Testing

UL Flammability:	NFPA 262 Plenum Flame Test (UL910)
CSA Flammability:	FT6
IEC Flammability:	IEC 60332-1-2
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

Plenum (Y/N):	Yes
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Part Number

Non-Plenum Number:	9855
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Variants

Item #	Color	UPC
89855 0101000	Black	612825221357

Footnote:	C - CRATE REEL PUT-UP.
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History

Update and Revision:	Revision Number: 0.336 Revision Date: 09-10-2021
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