

89855 Multi-Conductor - Low Capacitance Computer and Computer P.O.S. Cable



For more Information
please call

1-800-Belden1

**General Description:**

22 AWG solid TC conductors, plenum, solid FEP insulation, twisted pairs, overall Beldfoil (100% coverage) + TC braid shield (55% coverage) plus polyester tape, 22 AWG solid TC drain wire, FEP jacket.

Physical Characteristics (Overall)**Conductor****AWG:**

# Pairs	AWG	Stranding	Conductor Material
2	22	Solid	TC - Tinned Copper

Total Number of Conductors: 4

Insulation**Insulation Material:**

Insulation Material	Wall Thickness (mm)
FEP - Fluorinated Ethylene Propylene	0.406

Outer Shield**Outer Shield Material:**

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100
2		Braid	TC - Tinned Copper	55

Outer Shield Drain Wire AWG:

AWG	Stranding	Drain Wire Conductor Material
22	Solid	TC - Tinned Copper

Outer Shield Separator Material: Polyester Tape

Outer Jacket**Outer Jacket Material:**

Outer Jacket Material	Nom. Wall Thickness (mm)
FEP - Fluorinated Ethylene Propylene	0.406

Overall Cable

Overall Nominal Diameter: 6.909 mm

Pair**Pair Color Code Chart:**

Number	Color
1	Red & Blue
2	Black & Yellow

Mechanical Characteristics (Overall)

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

Bulk Cable Weight: 56.552 Kg/Km

Max. Recommended Pulling Tension: 289.133 N

Min. Bend Radius/Minor Axis: 69.850 mm

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Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMP, MPP
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CEC/C(UL) Specification:	CMP
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EU Directive 2011/65/EU (ROHS II):	Yes
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EU CE Mark:	Yes
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EU Directive 2000/53/EC (ELV):	Yes
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EU Directive 2002/95/EC (RoHS):	Yes
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EU RoHS Compliance Date (mm/dd/yyyy):	04/01/2005
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EU Directive 2002/96/EC (WEEE):	Yes
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EU Directive 2003/11/EC (BFR):	Yes
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CA Prop 65 (CJ for Wire & Cable):	Yes
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MII Order #39 (China RoHS):	Yes
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Flame Test

UL Flame Test:	NFPA 262
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CSA Flame Test:	FT6
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Plenum/Non-Plenum

Plenum (Y/N):	Yes
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Non-Plenum Number:	9855
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Surface Printing (Overall)

Surface Printing:	BELDEN-E 89855 E108998 2PR22 200C SHIELDED (UL) CMP C(UL)
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Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)

100

Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)

50.8555

Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m)

88.587

Nominal Velocity of Propagation:

VP (%)

69.5

Nominal Delay:

Delay (ns/m)

4.79026

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)

54.1365

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

16.0769

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100m)
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.3	1.3124
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METRIC MEASUREMENT VERSION

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.6	1.73893
1.0	2.13265
1.5	2.55918

Max. Operating Voltage - UL:

Voltage
300 V RMS

Max. Recommended Current:

Current
2.2 Amps per conductor @ 25°C (10°C rise in temp)

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
89855 0101000	1,000 FT	42.000 LB	BLACK	C	2 PR #22 FEP SH FEP

Notes:

C = CRATE REEL PUT-UP.

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