Detailed Specifications & Technical Data

METRIC MEASUREMENT VERSION



1346F Multi-Conductor - High-Flex Thin DeviceBus® for ODVA DeviceNet™



For more Information please call

1-800-Belden1



General Description:

22 and 24 AWG stranded tinned copper conductors, PVC insulation (power), FPE insulation (Data), individually foil shielded (100% coverage) and an overall tinned copper braid (65% coverage), sunlight/oil-resistant TPE jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Condu	ctors	# Pairs	AWG	Stranding	Conductor Material
4		1	22	154x44	TC - Tinned Copper
		1	24	105x44	TC - Tinned Copper

Insulation

Insulation Material:

Insulation Material	AWG
PVC - Polyvinyl Chloride	22
FPE - Foam Polyethylene	24

Inner Shield

Inner Shield Material:

Layer #	Inner Shield Trade Name	Type	Inner Shield Material	Coverage (%)
22 AWG Pair	Beldfoil®	Tape	Aluminum Foil-Polyester Tape	100
24 AWG Pair	Beldfoil®	Таре	Aluminum Foil-Polyester Tape	100

Inner Shield Drain Wire AWG:

AWG 22

Inner Shield Drain Wire Stranding: 26x36

Inner Shield Drain Wire Conductor Material: TC - Tinned Copper

Outer Shield

Outer Shield Material:

	Outer Shield Material	- , ,
Braid	TC - Tinned Copper	65

Outer Jacket

Outer Jacket Material:

Outer Jacket Material
TPE - Thermoplastic Elastomer

Overall Cable

Overall Nominal Diameter: 6.985 mm

Pair

Pair Color Code Chart:

Number	Color	
22 AWG Pair	Red & Black	
24 AWG Pair	Blue & White	

Mechanical Characteristics (Overall)

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Operating Temperature Range:	-30°C To +75°C
UL Temperature Rating:	75°C
Bulk Cable Weight:	61.016 Kg/Km
Max. Recommended Pulling Tension:	289.133 N
Min. Bend Radius/Minor Axis:	69.850 mm

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CMG, CL2
CEC/C(UL) Specification:	CMG
CSA Specification:	I/II A
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	05/03/2006
EU Directive 2002/96/EC (WEEE):	Yes
EU Directive 2003/11/EC (BFR):	Yes
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes
Other Specification:	ODVA Class 2 Thin
ame Test	
UL Flame Test:	UL1685 FT4 Loading
CSA Flame Test:	FT4
uitability	

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Sunlight Resistance: Yes Oil Resistance: Yes

Plenum/Non-Plenum

Plenum (Y/N): No

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Description	Impedance (Ohm)
24 AWG Pair	120

Nom. Capacitance Conductor to Conductor:

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Capacitance (pF/m)
24 AWG Pair	1			39.372

Nominal Velocity of Propagation:

Description VP (%) 24 AWG Pair 75

Maximum Delay:

Description	Freq. (MHz)	Start Freq. (MHz)	Stop Freq. (MHz)	Delay (ns/m)
24 AWG Pair				4.46216

Maximum Conductor DC Resistance:

Description	DCR @ 20°C (Ohm/100 m)
22 AWG	57.4175
24 AWG	91.868

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

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10.4992

Max. Attenuation:

()	Description	Freq. (MHz)
0.95149	24 AWG Pair Only	.125
1.6405		.500
2.2967		1.000

Max. Operating Voltage - UL:

Voltage	Description		
300 V RMS	CL2, CMG		
300 V RMS	C(UL) AWM		

Max. Recommended Current:

Current		
1.7 Amps per conductor @ 25°C (24 AWG)		
5 Amps per conductor @ 25°C (22 AWG)		

Notes (Overall)

Notes: Hi-Flex. Thin. Meter marks on jacket to aid users in installation.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
1346F T5U1000	305 MT	20.412 KG	GRAY T5U	С	2 #22, 2 #24 SH TPE

C = CRATE REEL PUT-UP.

Test Reports

UL Test Reports are available on-line through the UL Client Document Access web portal. i) UL Test Reports are available on-line through the UL Client Document Access web portal.
 ii) UL Inspection Reports are also available through the UL Client Document Access web portal.

b) CSA

i) CSA "Descriptive Report and Test Results" documents are available on the CSA Gateway Portal.

ii) CSA Inspection Reports are maintained on the CSA issued 'flash drive' at each manufacturing location.

Revision Number: 2 Revision Date: 03-11-2008

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^{*} other test data may be available if requested at time of order.