



Part Number: 1346F

DeviceNet™, (1) 22 AWG (154x44), (1) 24 AWG (105x44)
TC, PVC-FPE/TPE, Foil Shld, CMG, PLTC-ER

Product Description

One 22 AWG (154x44) stranded tinned copper conductor, one 24 AWG stranded (105x44) tinned copper conductors, PVC insulation (power), FPE insulation (Data), individual foil shield (100% coverage) plus an overall tinned copper braid (65% coverage), TPE jacket.

Technical Specifications

Construction and Dimensions

Conductor:

AWG	Stranding	Material	No. of Conductors	No. of Pairs
22	154x44	TC - Tinned Copper	4	1
24	105x44	TC - Tinned Copper		1

Insulation:

Element	Material
22	PVC - Polyvinyl Chloride
24	FPE - Foam Polyethylene

Color Chart 1:

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

Stranding:

Lay Length
1 MHz

Innershield:

Type	Layer	Material	Material Trade Name	Coverage [%]	Drainwire AWG	Drainwire Construction n x D
Tape	22 AWG Pair	Aluminum Foil-Polyester Tape	Beldfoil®	100 %	22	26x36 mm
Tape	24 AWG Pair	Aluminum Foil-Polyester Tape	Beldfoil®	100 %	TC - Tinned Copper	

Outershield 1:

Type	Material	Coverage [%]
Braid	TC - Tinned Copper	65 %

Outerjacket 1:

Material	Nominal Diameter
TPE - Thermoplastic Elastomer	0.275 in

Electrical Characteristics

Conductor DCR:

Element	Max. Conductor DCR	Nominal Outer Shield DCR
22 AWG	17.5 Ohm/1000ft	3.2 Ohm/1000ft
24 AWG	28 Ohm/100m	

Capacitance:

Element	Nom. Capacitance Conductor to Conductor
24 AWG Pair	12 pF/ft

Impedance:

Nominal Characteristic Impedance	Nominal Characteristic Impedance Description
120 Ohm	24 AWG Pair

Delay:

Max. Delay	Max. Delay Description	Nominal Velocity of Propagation (VP) [%]	Nominal Velocity of Propagation (VP) Description
1.36 ns/ft	24 AWG Pair	75 %	24 AWG Pair

High Freq:

Element	Frequency [MHz]
24 AWG Pair Only	0.125 MHz
	0.5 MHz
	1 MHz

Current:

Max. Recommended Current [A]
1.7 Amps per conductor @ 25°C (24 AWG)
5 Amps per conductor @ 25°C (22 AWG)

Voltage:

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

Use

Suitability - Oil Resistance:	Yes
Suitability - Sunlight Resistance:	Yes
Max Recommended Pulling Tension:	65 lbs

Safety

CSA Flammability:	FT4
UL Flammability:	UL1685 FT4 Loading

Temperature Range

Operating Temp Range:	-30°C To +75°C
UL Temp Rating:	75°C

Mechanical Characteristics

Min Bend Radius/Minor Axis:	2.75 in
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Part Number

Plenum (Y/N):	No
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Standards

CA Prop 65 (CJ for Wire & Cable):	CA Prop 65 (CJ for Wire & Cable)
CEC/C(UL) Specification:	CEC/C(UL) Specification

CSA AWM Specification:	CSA Specification
MII Order #39 (China RoHS):	MII Order #39 (China RoHS)
NEC/(UL) Specification:	NEC/(UL) Specification
Other Specification:	Other Specification
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	EU CE Mark

History

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

Part Number	Color	Put-Up Type	Length
1346F T5U1000	GRAY T5U	Reel	1000 ft

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