

Detailed Specifications & Technical Data



勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-54151736
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

83242 Coax - 50 Ohm Coax



For more information please
call

1-800-Belden1

See Put-ups and Colors

Description:

18 AWG solid .037" silver-coated copper-covered steel conductor, plenum, TFE Teflon® insulation, double silver-coated copper braid shield (96% coverage), FEP jacket.

PHYSICAL CHARACTERISTICS:

CONDUCTOR:

Number of Coax	1
Total Number of Conductors	1
RG Type	142B/U
AWG	19
Stranding	Solid
Conductor Diameter	.037 in.
Conductor Material	SCCCS - Silver-coated Copper-covered Steel

INSULATION:

Insulation Material Trade Name	Teflon®
Insulation Material	TFE - Tetrafluoroethylene
Insulation Diameter	.116 in.

OUTER SHIELD:

Outer Shield Type	Braid/Braid
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Outer Shield Material :

Layer Number	Trade Name	Type	Material	% Coverage (%)
1		Braid	Silver-coated Copper	96
1		Braid	Silver-coated Copper	94

Outer Shield % Coverage	96 %
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OUTER JACKET:

Outer Jacket Material	FEP - Fluorinated Ethylene Propylene
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OVERALL NOMINAL DIAMETER:

Overall Nominal Diameter	.195 in.
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MECHANICAL CHARACTERISTICS:

Operating Temperature Range	-70°C To +200°C
UL Temperature Rating	200°C

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Bulk Cable Weight	43 lbs/1000 ft.
Max. Recommended Pulling Tension	146 lbs.
Min. Bend Radius (Install)	2 in.

APPLICABLE SPECIFICATIONS AND AGENCY COMPLIANCE:

APPLICABLE STANDARDS:

NEC/(UL) Specification	CMP
CEC/C(UL) Specification	CMP
EU CE Mark (Y/N)	No
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	04/01/2005
Military Specification	MIL-C-17G, M17/158-00001

FLAME TEST:

UL Flame Test	VW-1, NFPA 262
C(UL) Flame Test	FT6

OTHER:

Other Information (Trademarks)	Teflon® is a DuPont trademark
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PLENUM/NON-PLENUM:

Plenum (Y/N)	Y
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ELECTRICAL CHARACTERISTICS:

Nom. Characteristic Impedance	50 Ohms
Nom. Inductance	.067 µH/ft
Nom. Capacitance Conductor to Shield	29.0 pF/ft
Nominal Velocity of Propagation	70% %
Nominal Delay	1.48 ns/ft
Nom. Conductor DC Resistance @ 20 Deg. C	19.3 Ohms/1000 ft
Nominal Outer Shield DC Resistance @ 20 Deg.C	2.3 Ohms/1000 ft
Nom. Attenuation :	

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Description	Frequency (MHz)	Start Frequency (MHz)	Stop Frequency (MHz)	Nom. Attenuation (dB/100 ft.)
	10			1.1
	50			2.6
	100			3.8
	200			5.4
	400			7.9
	700			10.7
	900			12.3
	1000			13.1
	2000			19.3
	3000			24.2
	5000			32.6
	8000			43.2

Max. Operating Voltage - UL 150 V RMS

Max. Operating Voltage - Other 1400 V RMS (Military)

NOTES:

Notes Non-SWR swept version of RG-142. Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.

PUT-UPS AND COLORS:

Item	Description	Put-Up (ft.)	Ship Weight (lbs.)	Jacket Color	Notes
83242 001100	#18H COAX RG-142B/U	100	5.2	BROWN	C E
83242 0011000	#18H COAX RG-142B/U	1000	44	BROWN	C E
83242 001500	#18H COAX RG-142B/U	500	22	BROWN	C E

C = CRATE REEL PUT-UP.

E = MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 25'

Revision Number: 4 Revision Date: 07-26-2007

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