Detailed Specifications & Technical Data



METRIC MEASUREMENT VERSION

8281B Coax - Double Braided RG-59/U Type

For more Information please call

1-800-Belden1



General Description:

20 AWG solid .031" bare copper conductor, flame-retardant semi-foam polyethylene insulation, tinned copper/bare copper double braid shield (95% coverage), PVC jacket.

Adv: Serie Serie Serie I 20 Serie Serie Serie 20 Serie Serie I 20 Serie Serie Serie	Physical Characteristics (Overall)	
Image: AWO Stranding Conductor Material Dia (mm) Image: AWO Stranding Conductors: 1 Total Number of Conductors: 1 Image: Among Stranding Conductors: 0 Image: Among Stranding Conductors: 7.747 mm Image: Among Stranding Stranding Stranding Stranding Stranding 5.240 cm	Conductor	
1 20 Sold BC - Bare Copper 0.1974 Total Mumber of Conductors: 1 Image: Conductors: 1 Image: Conductors: 1 Image: Conductors: Discontor Image: Conductor: Discontor Overail Coharder Procc - PolyContor Uter Totactor Solt Control: Overail Operating Temperature Raing: 75°C. B°C Buik Cable Weight: 117.568 kg/km Min. Bead Radius/Miner Asis: To 280 mm Min. Readius Bautine: 15.240 cn		n)
sulation Insulation Material Insulation Material Insulation Material Insulation Material Insulation Material Date: Material Date: Material Date: Shield Date: Shield Material: Date: Shield Coverage (5) 2 grain [C - Timed Copper 95.000 2 grain [C - T		
Inculation Material: Inducition Material: Ver Shield Outer Shield Material: Ver Shield Outer Shield Material: Ver Shield Outer Shield Material: Ver Shield Ver Shie	Total Number of Conductors:	1
Instant Radical Material Dis. (mm) FR Semi-Foam PE - Flame Relational Semi-Foam Polyethylene [5:022] User Shield Outer Shield Material: Image: Standard Semi-Foam Polyethylene [5:029] User Shield Conservation Material: Image: Standard Semi-Foam Polyethylene [5:029] User Jacket Material: Image: Standard Semi-Foam Polyethylene [5:029] User Jacket Material: Image: Standard Semi-Foam Polyethylene [5:029] Verall Cable Image: Standard Semi-Foam Polyethylene [5:029] Verall Cable Meight: 117:568 KgKm Max. Recommended Pulling Tension: 747:208 N Min. Bend Radius/Minor Axis: 76:200 mm Min. Bend Radius/Minor Axis: 76:200 mm Policable Standards & Environmental Programs Image: Standards & Environmental Programs EU(UL) Specification: CMR GEC/(UL) Specification: CMG <	Insulation	
FK Semi-Foam PE - Flame Retardant Semi-Foam Polyethylene [5.0292 Uter Shield Durs Naled Material: Line Shield Cours Naled Material: Outer Shield Material: Outer Shield Material: Outer Shield Material: Outer Shield Material: Outer Jackst Material: Outer Jackst Material: Outer Jackst Material: Outer Jackst Material: Overall Nominal Diameter: 7.747 mm Schanical Characteristics (Overall) Operating Temperature Range: 40°C To +80°C UL Temperature Raing: 75°C, 80°C Buik cable Weight: 11755 Kg/km Max. Recommended Pulling Tension: 747 298 N Min. Bend Radius/Minor Axis: 76 200 mm Min. Fixeting Radius: 15 240 cm Diplicable Standards & Environmental Programs KEG(UL) Specification: CUL) Specification: CMR CEU Unictive 2014SEU (ROHS II): Yes EU Directive 2004SEC (ELV): Yes EU Directive 2004SEC (RoHS): Yes EU Directive 2004SEC (RoHS): Yes EU Directive 2004SEC (RoHS): Yes	Insulation Material	Dia (mm)
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1 Braid TC - Timed Copper 95.000 2 Braid TC - Timed Copper 95.000 Outer Jackt Material: Outer Jackt Material: Outer Jackt Material: Outer Jackt Material: Outer Jackt Material: Outer Jackt Material: Overall Cable Vorall Nominal Diameter: 7.747 mm Schanical Characteristics (Overall) Operating Temperature Range: 40° C To +80° C UL Temperature Rang: 75°C, 80° C Buik Cable Weight: 117.568 Kg/km Max. Recommeded Pulling Tension: 747.228 N Min. Bend Radius/Minor Axis: 76.200 mm Min. Floating Radius: 15.240 cm Scheer Compliance (Overall) Scheer Compliance (Overall) Specifications and Agency Compliance (Overall) Scheer Compliance (Overall) Scheer Compliance (Overall) Splicable Specifications: CMR CEC/(Clu) Specifications: CMR ECC/(LU) Specification: UL Style 1864 EU Directive 2001/56/EU (ROHS II): Yes EU Directive 2001/56/EU (ROHS II): Yes EU Directive 2002/59/EC (ROHS): Yes EU Directive 2002/59/EC (ROHS): Yes EU Directive 2002/59/EC (ROHS	Outer Shield Outer Shield Material:	
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Min. Flexing Radius:15.240 cmoplicable Specifications and Agency Compliance (Overall)oplicable Standards & Environmental ProgramsNEC/(UL) Specification:CMRCEC/C(UL) Specification:CMGAWM Specification:UL Style 1354EU Directive 2011/65/EU (ROHS II):YesEU CE Mark:YesEU Directive 2000/53/EC (ELV):YesEU Directive 2002/95/EC (ROHS):YesEU Directive 2002/95/EC (ROHS):YesEU Directive 2002/95/EC (ROHS):YesEU Directive 2003/11/EC (BFR):YesEU Directive 2003/11/EC (BFR):Yes	Max. Recommended Pulling Tension:	747.298 N
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EU Directive 2011/65/EU (ROHS II):YesEU CE Mark:YesEU Directive 2000/53/EC (ELV):YesEU Directive 2002/95/EC (RoHS):YesEU RoHS Compliance Date (mm/dd/yyyy):10/13/2005EU Directive 2002/96/EC (WEEE):YesEU Directive 2003/11/EC (BFR):YesCA Prop 65 (CJ for Wire & Cable):Yes	CEC/C(UL) Specification:	CMG
EU CE Mark:YesEU Directive 2000/53/EC (ELV):YesEU Directive 2002/95/EC (RoHS):YesEU RoHS Compliance Date (mm/dd/yyyy):10/13/2005EU Directive 2002/96/EC (WEEE):YesEU Directive 2003/11/EC (BFR):YesCA Prop 65 (CJ for Wire & Cable):Yes	AWM Specification:	UL Style 1354
EU Directive 2000/53/EC (ELV):YesEU Directive 2002/95/EC (RoHS):YesEU RoHS Compliance Date (mm/dd/yyyy):10/13/2005EU Directive 2002/96/EC (WEEE):YesEU Directive 2003/11/EC (BFR):YesCA Prop 65 (CJ for Wire & Cable):Yes	EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2002/95/EC (RoHS):YesEU RoHS Compliance Date (mm/dd/yyyy):10/13/2005EU Directive 2002/96/EC (WEEE):YesEU Directive 2003/11/EC (BFR):YesCA Prop 65 (CJ for Wire & Cable):Yes	EU CE Mark:	Yes
EU RoHS Compliance Date (mm/dd/yyyy): 10/13/2005 EU Directive 2002/96/EC (WEEE): Yes EU Directive 2003/11/EC (BFR): Yes CA Prop 65 (CJ for Wire & Cable): Yes	EU Directive 2000/53/EC (ELV):	Yes
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EU Directive 2003/11/EC (BFR): Yes CA Prop 65 (CJ for Wire & Cable): Yes	EU RoHS Compliance Date (mm/dd/yyyy):	10/13/2005
CA Prop 65 (CJ for Wire & Cable): Yes	EU Directive 2002/96/EC (WEEE):	Yes
	EU Directive 2003/11/EC (BFR):	Yes
MII Order #39 (China RoHS): Ves	CA Prop 65 (CJ for Wire & Cable):	Yes
	MII Order #39 (China RoHS):	Yes

Detailed Specifications & Technical Data





8281B Coax - Double Braided RG-59/U Type

lame Test		59/U
iunic rest		
UL Flame	Test:	UL1666 Vertical Shaft
CSA Flan	ne Test:	FT4
uitability		
-	y - Indoor:	Yes
Suitabilit	y - Outdoor:	Yes - Black Only
	y - Aerial:	Yes - Black only, when supported by a messenger wire
	-	res - black only, when supported by a messenger whe
Plenum/Non		Na
Plenum (No
Plenum N	lumber:	88281
lectrical C	haracteristics (Ove	erall)
	eristic Impedance:	
Impedance 75	(Ohm)	
Nom. Inductar		
Inductance 0.387158	· (μα/m)	
	ance Conductor to Shield	
Capacitanc		
68.901		
Nominal Velo	tity of Propagation:	
VP (%)	ny or ropugation.	
66		
Nominal Delay	<i>r</i> :	
Delay (ns/r		
Delay (ns/r 5.05274		
5.05274	tor DC Resistance:	
5.05274 Nom. Conduc	tor DC Resistance: C (Ohm/km)	
5.05274 Nom. Conduc		
5.05274 Nom. Conduct DCR @ 20 32.4819		
5.05274 Nom. Conduct DCR @ 20 32.4819 Nominal Oute DCR @ 20	C (Ohm/km)	
5.05274 Nom. Conduct 200 32.4819 Nominal Oute DCR @ 200 3.6091	C (Ohm/km) r Shield DC Resistance: C (Ohm/km)	
5.05274 Nom. Conduct DCR @ 20° 32.4819 Nominal Oute DCR @ 20° 3.6091 Nom. Attenua	C (Ohm/km) r Shield DC Resistance: C (Ohm/km) Lion:	
5.05274 Nom. Conduct DCR @ 20° 32.4819 Nominal Oute DCR @ 20° 3.6091 Nom. Attenua Freq. (MHz	C (Ohm/km) r Shield DC Resistance: C (Ohm/km) tion:) Attenuation (dB/100m)	
5.05274 Nom. Conduct DCR @ 20° 32.4819 Nominal Oute DCR @ 20° 3.6091 Nom. Attenuat Freq. (MHz 1	C (Ohm/km) r Shield DC Resistance: C (Ohm/km) tion:) Attenuation (dB/100m) 0.9843	
5.05274 Nom. Conduct DCR @ 20° 32.4819 Nominal Oute DCR @ 20° 3.6091 Nom. Attenuat Freq. (MHz 1 3.6	C (Ohm/km) r Shield DC Resistance: C (Ohm/km) tion:) Attenuation (dB/100m) 0.9843 1.6405	
5.05274 Nom. Conduct DCR @ 20° 32.4819 Nominal Oute DCR @ 20° 3.6091 Nom. Attenuat Freq. (MHz 1	C (Ohm/km) r Shield DC Resistance: C (Ohm/km) tion:) Attenuation (dB/100m) 0.9843	
5.05274 Nom. Conduct DCR @ 20° 32.4819 Nominal Oute DCR @ 20° 3.6091 Nom. Attenua Freq. (MHz 1 3.6 10.0	C (Ohm/km) r Shield DC Resistance: C (Ohm/km) tion:) Attenuation (dB/100m) 0.9843 1.6405 2.6248	
5.05274 Nom. Conduc: DCR @ 20° 32.4819 Nominal Oute DCR @ 20° 3.6091 Nom. Attenua Freq. (MHz 1 3.6 10.0 71.5 135 270	C (Ohm/km) r Shield DC Resistance: C (Ohm/km) tion:) Attenuation (dB/100m) 0.9843 1.6405 2.6248 6.8901 9.843 14.4364	
5.05274 Nom. Conduct 32.4819 Nominal Oute DCR @ 20° 3.6091 Nom. Attenua Freq. (MHz 1 3.6 10.0 71.5 135 270 360	C (Ohm/km) r Shield DC Resistance: C (Ohm/km) tion:) Attenuation (dB/100m) 0.9843 1.6405 2.6248 6.8901 9.843 14.4364 16.7331	
5.05274 Nom. Conduc: DCR @ 20° 32.4819 Nominal Oute DCR @ 20° 3.6091 Nom. Attenua Freq. (MHz 1 3.6 10.0 71.5 135 270 360 540	C (Ohm/km) r Shield DC Resistance: C (Ohm/km) tion:) Attenuation (dB/100m) 0.9843 1.6405 2.6248 6.8901 9.843 14.4364 16.7331 21.6546	
5.05274 Nom. Conduc: DCR @ 20° 32.4819 Nominal Oute DCR @ 20° 3.6091 Nom. Attenua Freq. (MHz 1 3.6 10.0 71.5 135 270 360 540 720	C (Ohm/km) r Shield DC Resistance: C (Ohm/km) tion:) Attenuation (dB/100m) 0.9843 1.6405 2.6248 6.8901 9.843 14.4364 16.7331 21.6546 25.5918	
5.05274 Nom. Conduc: DCR @ 20° 32.4819 Nominal Oute DCR @ 20° 3.6091 Nom. Attenua Freq. (MHz 1 3.6 10.0 71.5 135 270 360 540 720 750	C (Ohm/km) r Shield DC Resistance: C (Ohm/km) tion:) Attenuation (dB/100m) 0.9843 1.6405 2.6248 6.8901 9.843 14.4364 16.7331 21.6546 25.5918 26.248	
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5.05274 Nom. Conduct DCR @ 20° 32.4819 Nominal Oute DCR @ 20° 3.6091 Nom. Attenua Freq. (MHz 1 3.6 10.0 71.5 135 270 360 540 720 750 1000 Max. Operatin	C (Ohm/km) r Shield DC Resistance: C (Ohm/km) tion:) Attenuation (dB/100m) 0.9843 1.6405 2.6248 6.8901 9.843 14.4364 16.7331 21.6546 25.5918 26.248	
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5.05274 Nom. Conduct DCR @ 20° 32.4819 Nomial Oute DCR @ 20° 3.6091 Nom. Attenua Freq. (MHz 1 3.6 10.0 71.5 135 270 360 540 720 750 1000 Max. Operatin Voltage 30 V RMS 300 V RMS	C (Ohm/km) r Shield DC Resistance: C (Ohm/km) 1.6405 2.6248 6.8901 9.843 14.4364 16.7331 21.6546 25.5918 26.248 33.4662 g Voltage - UL:	
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5.05274 S.05274 S.05274 Source 20' 32.4819 Source 20' 3.6091 Source 20' Source 20'	C (Ohm/km) r Shield DC Resistance: C (Ohm/km) 0.9843 1.6405 2.6248 6.8901 9.843 14.4364 14.4364 14.4364 16.7331 21.6546 25.5918 26.248 33.4662 g Voltage - UL: g Voltage - Non-UL:	
5.05274 S.05274 S.05274 Source 20' 32.4819 Source 20' 3.6091 Source 20' Source 20'	C (Ohm/km) r Shield DC Resistance: C (Ohm/km) 1.6405 2.6248 6.8901 9.843 14.4364 16.7331 21.6546 25.5918 26.248 33.4662 g Voltage - UL: g Voltage - Non-UL:	Impedance tested in accordance with ASTM D-4566 paragraph 43.2, option 2 using a 75 Ohm fixed bridge and termination. 75 +/ 1.5 Ohms
5.05274 Nom. Conduct DCR @ 20' 32.4819 Nominal Oute DCR @ 20' 3.6091 Nom. Attenua Freq. (MHz 1 3.6 10.0 71.5 135 270 360 540 720 750 1000 Max. Operatin Voltage 300 V RMS 300 V RMS Max. Operatin	C (Ohm/km) r Shield DC Resistance: C (Ohm/km) 0.9843 1.6405 2.6248 6.8901 9.843 14.4364 14.4364 14.4364 16.7331 21.6546 25.5918 26.248 33.4662 g Voltage - UL: g Voltage - Non-UL:	Impedance tested in accordance with ASTM D-4566 paragraph 43.2, option 2 using a 75 Ohm fixed bridge and termination. 75 +/- 1.5 Ohms

Detailed Specifications & Technical Data



METRIC MEASUREMENT VERSION

8281B Coax - Double Braided RG-59/U Type

5	216	27	
217	850	23	

Sweep Test

Sweep Testing:

100% sweep tested. 5 MHz to 850 MHz

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
8281B 0021000	305 MT	37.648 KG	RED	С	#20 FRSFPE DBLB FRPVC
8281B 0041000	305 MT	37.648 KG	YELLOW	С	#20 FRSFPE DBLB FRPVC
8281B 0051000	305 MT	37.648 KG	GREEN, DARK	С	#20 FRSFPE DBLB FRPVC
8281B 0061000	305 MT	37.648 KG	BLUE, LIGHT	С	#20 FRSFPE DBLB FRPVC
8281B 0071000	305 MT	37.648 KG	VIOLET	С	#20 FRSFPE DBLB FRPVC
8281B 0081000	305 MT	37.648 KG	GRAY	С	#20 FRSFPE DBLB FRPVC
8281B 0091000	305 MT	37.648 KG	WHITE	С	#20 FRSFPE DBLB FRPVC
8281B 0101000	305 MT	37.648 KG	BLACK	С	#20 FRSFPE DBLB FRPVC

Notes:

C = CRATE REEL PUT-UP.

Revision Number: 2 Revision Date: 08-27-2012

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