# **Detailed Specifications & Technical Data**



METRIC MEASUREMENT VERSION

#### 9221 Coax - 75 Ohm Miniature Coax

For more Information please call

1-800-Belden1



## **Description:**

30 AWG stranded (7x38) .012" tinned copper conductor, foam HDPE insulation, tinned copper braid shield (89% coverage), PVC jacket.

Physical Characteristics (Overall)	
Conductor	
AWG:	
# Coax         AWG         Stranding         Conductor         Material         Dia.         (m)           1         30         7x38         TC - Tinned Copper         0.3048	m)
Insulation Material:	
Insulation Material Dia. (mm)	
FHDPE - Foam High Density Polyethylene         1.4732	
Outer Shield	
Outer Shield Material: Type Outer Shield Material Coverage (%)	
Braid TC - Tinned Copper 89	
Outer Jacket	
Outer Jacket Material:	
Outer Jacket Material PVC - Polyvinyl Chloride	
Overall Cabling Overall Nominal Diameter:	2.464 mm
	2.464 mm
Mechanical Characteristics (Overall)	
Operating Temperature Range:	-40°C To +60°C
UL Temperature Rating:	60°C (UL AWM Style 1375)
Bulk Cable Weight:	8.929 Kg/Km
Max. Recommended Pulling Tension:	62.275 N
Min. Bend Radius (Install)/Minor Axis:	25.400 mm
Applicable Specifications and Agency Co	mpliance (Overall)
Applicable Standards & Environmental Progr	
AWM Specification:	UL Style 1375 (30 V 60°C)
EU CE Mark:	Yes
EU CE Mark: EU Directive 2000/53/EC (ELV):	Yes Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2000/53/EC (ELV): EU Directive 2002/95/EC (RoHS):	Yes Yes
EU Directive 2000/53/EC (ELV): EU Directive 2002/95/EC (RoHS): EU RoHS Compliance Date (mm/dd/yyyy):	Yes Yes 01/01/2004
EU Directive 2000/53/EC (ELV): EU Directive 2002/95/EC (RoHS): EU RoHS Compliance Date (mm/dd/yyyy): EU Directive 2002/96/EC (WEEE):	Yes Yes 01/01/2004 Yes

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## 9221 Coax - 75 Ohm Miniature Coax

Suitability         Yes           Suitability - Indoor:         Yes           Suitability - Outdoor:         Yes           Plenum/Non-Plenum         No           Plenum/Non-Plenum         No           Electrical Characteristic (Overall)         Non           Mom. Characteristic Impedance:         Impedance (Ommigits)           Tom. Characteristic Impedance:         Impedance (Ommigits)           Non: Inductance:         Impedance (Ommigits)           Non: Capacitance Conductor to Shield:         Impedance (Ommigits)           Suitability:         Impedance (Ommigits)           Nominal Velocity of Propagation:         Impedance (Ommigits)           Nominal Delay:         Impedance (Ommigits)           State (Impedance)         Impedance           Nominal Delay:         Impedance           State (Impedance)         Impedance           Nominal Delay:         Impedance           State (Impedance)         Impedance           Nom Attenuation:         Impedance           Tege (Impedance)         Impedance           State (Impedance)         Impedance           State (Impedance)         Impedance           State (Impedance)         Impedance           State (Impedance)         Impedance </th <th>MII Ord</th> <th>er #39 (China RoHS):</th> <th>Yes</th> <th></th>	MII Ord	er #39 (China RoHS):	Yes	
Suitability - Indoor:         Yes           Braum Variability - Outdoor:         Yes           Penum (Yi):         No           Electrical Characteristics (Overall)         No           Non: Characteristics (Overall)         No           Statistic (Overall)         No           Statistic (Overall)         No           Non: Characteristics (Overall)         No           Statistics (Overall)         No           Non: Characteristics (Overall)         No           Non: Characteristics (Overall)         No           No: Characteristics (Overall)         No           No: Characteristics (Overall)         No           No: Characteristics (Overall)         No           No: Characteristics (Overall)         No	Suitability			
Suitability - Outdoor:         Yes           Plenum(YAn):         No           Plenum (YAn):         No           Electrical Characteristics (Overall)         Non:           Non: Characteristics (Overall):         Imagenee (Oregonal)           Imagenee (Oregonal):         Imagene(Oregonal)           Imagene			Ves	
Deform/Non-Plenum         No           Electrical Characteristics (Overall)				
Perme (Yr/h):         No           Electrical Characteristic Involutions:         Implement (Yr/h):         Impleme	Suitabi	lity - Outdoor:	Yes	
Delectrical Characteristics (Overall)           Non. Characteristic Impedance:           Impedance (Orm)           3           Non. Inductance:           Inducence (Orm)           0.31827           Non. Capacitance Conductor to Shield:           Capacitance (Orm)           0.31827           Noninal Velocity of Propagation:           VP (%)           0.3201           Noninal Orley:           Delay (nam)           0.3201           Noninal Outer Shield DC Resistance:           Dec @ 207 (Ohm/km)           0.3201           Non. Attenuation:           1           1           1           2           2           1           2           1           2           2           2           2	Plenum/No	on-Plenum		
Non. Characteristic Impedance:         Impedance (Ohm)         75         Non. Inductance:         Inducance (offm)         0.318257         Non. Capacitance Conductor to Shield:         Capacitance (offm)         50.713         Nomial Volocity of Propagation:         VP (%)         70         Nomial Dalay:         2.653         Nom. Conductor DC Resistance:         DCR (g.276 (ohm/km))         322.31         Nom. Attenuation         322.31         Nom. Attenuation         15       5.2496         7       2.3339         Non. Attenuation (dP100m)         15       5.2496         7       2.339         Non. Attenuation         16       2.300         100       2.301         100       2.301         100       2.3051         100       2.3051         100       2.3051         100       2.3051         100       2.3051         100       2.3051         100       2.3051         100       2.30513         100       <	Plenum	n (Y/N):	No	
Non. Characteristic Impedance:         Impedance (Ohm)         75         Non. Inductance:         Inducance (offm)         0.318257         Non. Capacitance Conductor to Shield:         Capacitance (offm)         50.713         Nomial Volocity of Propagation:         VP (%)         70         Nomial Dalay:         2.653         Nom. Conductor DC Resistance:         DCR (g.276 (ohm/km))         322.31         Nom. Attenuation         322.31         Nom. Attenuation         15       5.2496         7       2.3339         Non. Attenuation (dP100m)         15       5.2496         7       2.339         Non. Attenuation         16       2.300         100       2.301         100       2.301         100       2.3051         100       2.3051         100       2.3051         100       2.3051         100       2.3051         100       2.3051         100       2.3051         100       2.30513         100       <				
Text         Text <t< th=""><th></th><th></th><th>verall)</th><th></th></t<>			verall)	
75           Non. Inductance:           Inductance (μ/m)           0.318267           Non. Capacitance Conductor to Shield:           Capacitance Conductor to Shield:           Capacitance Conductor to Shield:           V           Ø.318267           Non. Capacitance Conductor to Shield:           V           Ø.318267           Non. Capacitance Conductor Propagation:           V           Ø.318267           Non. Conductor DC Resistance:           DCB group (wint)           32:3           Non. Conductor DC Resistance:           DCB group (wint)           32:3           Non. Actionation           To group (wint)           32:3           Non. Actionation (db/ 00n)           13:4 2.0667           14:2 2.067           15:5 2.4468           16:3 0.3688           10:0 2.32.9313           10:0 2.32.9313           10:0 2.32.9313           10:0 2.32.9313           10:0 2.32.9415           10:0 2.32.9415           10:0 2.32.9415           10:0 2.32.9415           10:0 2.32.9415           10:0 2.32.9415				
Nom. Inductance:       Inductance (u/Vm)         0.318267       Nom. Capacitance Conductor to Shield:         Compacitance (pF/m)       Solida         Strain       Solida         Solida       Solida	-	e (Ohm)		
Protection (pfm)         Divide (procession (pfm))         Divide (procession (	75			
0.31827         Non. Capacitance Conductor to Shield:         Capacitance (pf/m)         56.7613         Non. Init Velocity of Propagation:         V (%)         70         Acasa         One. Conductor DC Resistance:         Delay (main)         32.3         Non. Conductor DC Resistance:         Delay (main)         32.3         Non. Conductor DC Resistance:         Delay (main)         32.3         Non. Attenuation (Bd form)         1       2.2967         3       4.2653         Soma (bd form)         1       2.2967         3       4.2653         Soma (bd form)         1       2.2967         3       4.2653         5       5.2406         7       6.23391         20       1.4.7331         70       0.2346         20       0.44405         20       0.44405         20       0.44405         20       0.44405         20       0.44505         20       0.44505	Nom. Induc	tance:		
Nom. Capacitance Conductor to Shield:         Spacitance (pf/m)         Sorial         Nominal Velocity of Propagation:         Verging         Sominal Dolay:         Dec @ 20°C (DimMm)         30.1         Nominal Outer Shield DC Resistance:         DC @ 20°C (DimMm)         30.2         Nom. Conductor DC Resistance:         DC @ 20°C (DimMm)         30.2         Nom. Intervation:         Teg. (Mathemation (dd*/dom)         1       2206         9       6.3301         10       7.2182         5       5.4496         7       6.2330         9       6.38051         10       7.2182         5       5.4496         7       6.23851         10       7.2182         30       6.38856         30       8.3888         300       8.7246         301       8.7246         302       8.7246         302       8.7246         302       8.7246         302       8.7246         302       8.7246         302       8.7246 <tr< th=""><th>Inductanc</th><th>e (μH/m)</th><th></th><th></th></tr<>	Inductanc	e (μH/m)		
Specialize (pFm)         Stroll         Nominal Velocity of Propagation:         VP (M)         200         Sominal Delay:         Delay (min)         2.653         Nominal Delay:         Delay (Clinik)         32.1         Nominal Outer Shield DC Resistance:         Delay (Clinik)         32.3         Nominal Outer Shield Stroll         30.4         55.5         30.4         30.4         30.4         30.4         30.4         30.4         30.4         30.4         30.4         30.4         30.4 <tr< th=""><th>0.318257</th><th></th><th></th><th></th></tr<>	0.318257			
96.7613           Nomial Velocity of Propagation:           V° (*)           Nomial Delay:           0 mial Delay:           0 mial Colay:	Nom. Capa	citance Conductor to S	hield:	
Nominal Velocity of Propagation:         VP (%)         7         Delay (m/m)         4.2653         Nom. Conductor DC Resistance:         DCR @ 20°C (0m/m)         38.1         Nominal Outer Shield DC Resistance:         DCR @ 20°C (0m/m)         38.2         Nom. Attenuation:         Tog         Tog         So 42865         7       6.2330         9       6.8901         10       7.2182         So 46355       6.2390         10       2.23513         200       4.4505         4.000       7.2182         So 4.6351       6.8901         100       7.23415         200       4.4505         4.000       7.7246         100       7.23415         200       4.4505         4.000       7.2782         So 7.73415       900         300       7.2482         300       7.2482         300       7.2482         300       7.2482         300       7.2482         300       7.2482         300	Capacitan	ice (pF/m)		
YP 60 78         Nominal Dolay:         Jago (minim) 4.2653         Nom. Conductor DC Resistance:         DC 62 02° (Dum/Em) 32.1         Nominal Outer Shild DC Resistance:         DC 62 02° (Dum/Em) 32.1         Nominal Outer Shild DC Resistance:         DE 62 02° (Dum/Em) 32.1         Nominal Outer Shild DC Resistance:         DE 62 02° (Dum/Em) 32.1         Nominal Outer Shild DC Resistance:         DE 62 02° (Dum/Em) 32.1         State Sta	56.7613			
YP 60 78         Nominal Dolay:         Jago (minim) 4.2653         Nom. Conductor DC Resistance:         DC 62 02° (Dum/Em) 32.1         Nominal Outer Shild DC Resistance:         DC 62 02° (Dum/Em) 32.1         Nominal Outer Shild DC Resistance:         DE 62 02° (Dum/Em) 32.1         Nominal Outer Shild DC Resistance:         DE 62 02° (Dum/Em) 32.1         Nominal Outer Shild DC Resistance:         DE 62 02° (Dum/Em) 32.1         State Sta	Nominal Ve	locity of Propagation:		
Pa           Nomial Delay:           Pairon (nam)           Passon           Passon           DER @ 20°C (Dum/km)           Passon           Passon           DER @ 20°C (Dum/km)           Passon           Passon           Der @ 20°C (Dum/km)           Passon           Passon           Der @ 20°C (Dum/km)           Passon           Passon </th <th></th> <th>, , , ,</th> <th></th> <th></th>		, , , ,		
Dely (nsim         4.263         Dr. Coductor DC Resistance:         DSR 20°C (Ohn/MR)         32.1         Dominal Outer Shield DC Resistance:         DSR 20°C (Ohn/MR)         32.3         Dominal Outer Shield DC Resistance:         DSR 20°C (Ohn/MR)         32.3         Dominal Outer Shield DC Resistance:         DSR 20°C (Ohn/MR)         32.3         Dominal Outer Shield DC Resistance:         DSR 20°C (Ohn/MR)         32.30         Dominal Outer Shield DC Resistance:         DSR 20°C (Ohn/MR)         32.30         Dominal Outer Shield DC Resistance:         DSR 20°C (Ohn/MR)         32.30         Dominal Outer Shield DC Resistance:         DSR 20°C (Din/MR)         32.30         Din Outer Shield DC Resistance:         Din Outer Shield Documents are available for this product				
Dely (nsim         4.263         Dr. Coductor DC Resistance:         DSR 20°C (Ohn/MR)         32.1         Dominal Outer Shield DC Resistance:         DSR 20°C (Ohn/MR)         32.3         Dominal Outer Shield DC Resistance:         DSR 20°C (Ohn/MR)         32.3         Dominal Outer Shield DC Resistance:         DSR 20°C (Ohn/MR)         32.3         Dominal Outer Shield DC Resistance:         DSR 20°C (Ohn/MR)         32.30         Dominal Outer Shield DC Resistance:         DSR 20°C (Ohn/MR)         32.30         Dominal Outer Shield DC Resistance:         DSR 20°C (Ohn/MR)         32.30         Dominal Outer Shield DC Resistance:         DSR 20°C (Din/MR)         32.30         Din Outer Shield DC Resistance:         Din Outer Shield Documents are available for this product	Nominal De	lav:		
4.263           Drom. Conductor DC Resistance:           DCP 20°C (Dhm/km) 32.23           Dominal Outer Shield DC Resistance:           DCP 20°C (Dhm/km) 32.236           Dom. Atternation           1         2.296           Dom. Atternation (dB/10m) 1         1           2.296         1           Dom Atternation (dB/10m) 1         1           2.296         1           Dom Atternation (dB/10m) 1         1           2.296         1           Dom Atternation (dB/10m) 1         1           2.296         1           2.001         1           2.296         1           Dom Atternation (dB/10m) 1         1           2.296         1           2.296         1           2.296         1           Dom Atternation (dB/10m) 1         2.296           1.292         2.298           2.293         1           2.296         1           2.296         1           2.001         2.396           2.001         2.986           2.000         2.746           Dom Atternation (dB/10m)         2.996           2.900         2.976		•		
DCR @ 20°C (Dmr/km]         328.1         Domal Outer Shield DC Resistance:         DC @ 20°C (Dmr/km]         38.2         Dom. Attenuation         1       2.2967         36       4.2653         5       5.2496         7       6.2339         0       6.8901         10       7.2182         50       16.7331         70       20.0141         100       23.9573         200       44.4505         400       50.8555         700       70.5415         900       81.3688         1000       7.2746 <b>Dresting Voltage - UL: Values Dresting Voltage - UL: Network</b> (UL AWM Style 1375)				
DCR @ 20°C (Dmr/km]         328.1         Domal Outer Shield DC Resistance:         DC @ 20°C (Dmr/km]         38.2         Dom. Attenuation         1       2.2967         36       4.2653         5       5.2496         7       6.2339         0       6.8901         10       7.2182         50       16.7331         70       20.0141         100       23.9573         200       44.4505         400       50.8555         700       70.5415         900       81.3688         1000       7.2746 <b>Dresting Voltage - UL: Values Dresting Voltage - UL: Network</b> (UL AWM Style 1375)	Nom Cond	uctor DC Resistance		
32.1         Nominal Outer Shield DC Resistance:         DCR @ 0°C (Ohn/km)         32.236         Nom Attenuation (dB/100m)         1       2.2967         3.6       4.2653         5       5.2496         7       2.339         9       6.8901         10       7.2182         5       16.7331         70       2.0141         100       2.39513         200       84.8905         100       2.9513         900       81.3688         900       81.3688         900       81.3688         900       81.3688         900       81.3688         900       81.3688         900       81.3688         900       81.3688         900       81.3688         900       81.3688         900       81.3688         900       81.3688         900       91.3688         900       91.3688         900       91.3688         900       91.3688         900       91.3688         900       91.3688				
Nominal Outer Shield DC Resistance:         DCR @ 20°C (Ohm/km)         38.2236         Nom. Attenuation:         Freq. (MHz) Attenuation (dB/100m)         3.6       4.2653         5       5.2496         7       6.2339         9       6.8901         10       7.2182         50       16.7331         70       20.0141         100       23.9513         200       34.4505         900       81.3688         900       81.3688         900       81.3688         900       81.3688         900       81.3688         900       81.3688         900       81.3688         900       81.3688         900       81.3688         900       81.3688         900       81.3688         900       81.3688         900       81.3688         900       81.3688         900       81.3688         900       81.3688         900       81.3688         901       900         902       81.3688         903       81.3688 <th></th> <th></th> <th></th> <th></th>				
DCR @ 20°C (Dhm/km)         382336         Dom. Attenuation         Image: Transport of the sproduct		utor Shield DC Besisten	2001	
38.2236         Nom. Attenuation         1       2.2967         3.6       4.2653         5       5.2496         7       6.2339         9       6.8001         10       7.2182         50       16.7331         70       20.0141         100       2.39513         200       3.4.4005         400       50.8555         700       7.5.415         900       81.3688         1000       87.2746         Max. Operating Voltage - UL:         Voltage       30 V RMS (UL AVMM Style 1376)				
Nom. Attenuation (dB/100m)         1       2.2967         3.6       4.2653         5       5.2496         7       6.2339         9       6.8901         10       7.2182         50       16.7331         70       20.0141         100       23.9513         200       34.4505         400       50.8555         700       70.5415         900       81.3688         1000       87.2746         Max. Operating Voltage - UL:         Voltage         30 V RMS (UL AVWM Style 1375)	_			
Freq. (MH2) Attenuation (dB/100m)         1       2.2967         3.6       4.2653         5       5.2496         7       6.2339         9       6.8901         10       7.2182         50       16.7331         70       20.0141         100       23.9513         200       34.4505         400       50.8555         700       70.5415         900       81.3668         1000       87.2746    Max. Operating Voltage - UL:          Voltage         30 V RMS (UL AWM Style 1375)    No related documents are available for this product				
1       2.2967         3.6       4.2653         5       5.2496         7       6.2339         9       6.8901         10       7.2182         50       16.7331         70       20.0141         100       23.9513         200       34.4505         400       50.8555         700       70.5415         900       81.3688         1000       87.2746         Max. Operating Voltage - UL:         Voltage       30 V RMS (UL AWM Style 1375)				
3.6       4.2653         5       5.2496         7       6.2339         9       6.8901         10       7.2182         50       16.7331         70       20.0141         100       23.9513         200       34.4505         400       50.8555         700       70.5415         900       81.3688         1000       87.2746         Max. Operating Voltage - UL:         Voltage         30 V RMS (UL AWM Style 1375)    Related documents are available for this product				
5       5.2496         7       6.2339         9       6.8901         10       7.2182         50       16.7331         70       20.0141         100       23.9513         200       34.4505         400       50.8555         700       70.5415         900       81.3688         1000       87.2746 <b>Voltage - UL: Voltage</b> 30 V RMS (UL AWM Style 1375) <b>Related Documents:</b>				
7       6.2339         9       6.8901         10       7.2182         50       16.7331         70       20.0141         100       23.9513         200       34.4505         200       34.4505         200       50.8555         700       70.5415         900       81.3688         1000       87.2746         Max. Operating Voltage - UL:         Voltage         30 V RMS (UL AWM Style 1375)         Related Documents         No related documents are available for this product				
9       6.8901         10       7.2182         50       16.7331         70       20.0141         100       23.9513         200       34.4505         700       70.5415         900       81.3688         1000       87.2746         Max. Operating Voltage - UL:         Voltage         30 V RMS (UL AWWM Style 1375)    Related Documents are available for this product				
50       16.7331         70       20.0141         100       23.9513         200       34.4505         400       50.8555         700       70.5415         900       81.3688         1000       87.2746         Max. Operating Voltage - UL:         Voltage       30 V RMS (UL AWM Style 1375)         Related Documents:         No related documents are available for this product	9			
70       20.0141         100       23.9513         200       34.4505         400       50.8555         700       70.5415         900       81.3688         1000       87.2746         Max. Operating Voltage - UL:         Voltage         30 V RMS (UL AWM Style 1375)         Related Documents:         No related documents are available for this product	10	7.2182		
100       23.9513         200       34.4505         400       50.8555         700       70.5415         900       81.3688         1000       87.2746         Max. Operating Voltage - UL:         Voltage       30 V RMS (UL AWM Style 1375)         Related Documents:         No related documents are available for this product				
200       34.4505         400       50.8555         700       70.5415         900       81.3688         1000       87.2746         Max. Operating Voltage - UL:         Voltage       30 V RMS (UL AWM Style 1375)         Related Documents:         No related documents are available for this product				
400       50.8555         700       70.5415         900       81.3688         1000       87.2746         Max. Operating Voltage - UL:         Voltage         30 V RMS (UL AWM Style 1375)         Related Documents:         No related documents are available for this product				
700       70.5415         900       81.3688         1000       87.2746         Max. Operating Voltage - UL:         Voltage         30 V RMS (UL AWM Style 1375)         Related Documents:         No related documents are available for this product				
900       81.3688         1000       87.2746         Max. Operating Voltage - UL:         Voltage         30 V RMS (UL AWM Style 1375)         Related Documents:         No related documents are available for this product				
1000       87.2746         Max. Operating Voltage - UL:       Voltage         30 V RMS (UL AWM Style 1375)         Related Documents:         No related documents are available for this product				
Max. Operating Voltage - UL: Voltage 30 V RMS (UL AWM Style 1375) Related Documents: No related documents are available for this product				
Voltage         30 V RMS (UL AWM Style 1375)         Related Documents:         No related documents are available for this product	Max Opera			
30 V RMS (UL AWM Style 1375) Related Documents: No related documents are available for this product	-	ting voltage - OL.		
Related Documents: No related documents are available for this product		(LIL AWM Style 1375)		
No related documents are available for this product				
No related documents are available for this product	Related D	ocuments:		
Put Ups and Colors:	No related doc	uments are available for this	s product	
	Put Ups a	nd Colors:		

# **Detailed Specifications & Technical Data**

#### METRIC MEASUREMENT VERSION



#### 9221 Coax - 75 Ohm Miniature Coax

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9221 010U500	152 MT	1.814 KG	BLACK		75 OHM MINIATURE COAX
9221 010100	30 MT	0.635 KG	BLACK		75 OHM MINIATURE COAX
9221 010500	152 MT	1.814 KG	BLACK		75 OHM MINIATURE COAX

Revision Date: 05-14-2007 Revision Number: 1

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