

ENGLISH MEASUREMENT VERSION

## 7878S Composite - Composite Data, Audio, Video, Security and Control Cable



For more Information please call

1-800-Belden1



#### **General Description:**

Banana Peel® Composite - (2)Cat 5e 4-bonded-pair. 24 AWG unshielded plus (2)Series 6 Coax with Duobond Plus® plus (1)2-Fiber LANLite®, Polyolefin Insulation on the prs; Gas-injected FPE Insulation on the coax, F-R PVC jackets. No overall jacket.

			Iultimedia, Voice, Video, Data, High Speed Internet, Networked Comp Audio, Security Monitoring, Energy Monitoring	outing,
			Audio, occurry monitoring, Energy monitoring	
sical Characteristics				
AWG:				
# Coax AWG Stranding Cor	nductor Mat	erial Dia. (in.)		
2 18 Solid BC	- Bare Copp	er 0.040		
sulation				
nsulation Material:				
Insulation Material		a. (in.)		
Gas-injected FPE - Foam Poly	ethylene 0.1	80		
iter Shield				
Outer Shield Material:		Outer Object Meterial	0	
Layer #         Outer Shield Trade N           1         Bonded Duofoil®		Bonded Aluminum Foil-Polyester Tape-Aluminum Foil	Coverage (%) 100.000	
2		AL - Aluminum	77.000	
3		Bonded Aluminum Foil-Polyester Tape w/Shorting Fold		
ter Jacket	1			
Nom. Dia. (in.) 0.275		miliance		
Nom. Dia. (in.) 0.275 icable Specifications and A plicable Standards & Envir		Programs		
Nom. Dia. (in.) 0.275 icable Specifications and A plicable Standards & Envir				
Nom. Dia. (in.) 0.275 icable Specifications and A plicable Standards & Envir Series Type: trical Characteristics		Programs		
Nom. Dia. (in.) 0.275 icable Specifications and A plicable Standards & Envir Series Type: trical Characteristics m. Characteristic Impedance:		Programs		
Nom. Dia. (in.) 0.275 icable Specifications and A plicable Standards & Envir Series Type: trical Characteristics m. Characteristic Impedance: Impedance (Ohm)		Programs		
Nom. Dia. (in.) 0.275 iicable Specifications and A plicable Standards & Envir Series Type: trical Characteristics m. Characteristic Impedance: Impedance (Ohm) 75		Programs		
Nom. Dia. (in.) 0.275 icable Specifications and A plicable Standards & Envir Series Type: trical Characteristics m. Characteristic Impedance: Impedance (Ohm) 75 m. Inductance:		Programs		
Nom. Dia. (in.) 0.275 icable Specifications and A plicable Standards & Envir Series Type: rical Characteristics n. Characteristic Impedance: Impedance (Ohm) 75 n. Inductance: Inductance (µH/ft)		Programs		
Nom. Dia. (in.) 0.275 icable Specifications and A plicable Standards & Envir Series Type: rical Characteristics m. Characteristic Impedance: Impedance (Ohm) 75 m. Inductance: Inductance (µH/ft) 0.097	ronmental	Programs		
Nom. Dia. (in.) 0.275 icable Specifications and A plicable Standards & Envir Series Type: trical Characteristics m. Characteristic Impedance: Impedance (Ohm) 75 m. Inductance: Inductance (µH/ft) 0.097 m. Capacitance Conductor to S	ronmental	Programs		
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Nom. Dia. (in.) 0.275 icable Specifications and A plicable Standards & Envir Series Type: trical Characteristics m. Characteristic Impedance: Impedance (Ohm) 75 m. Inductance: Inductance (µH/ft) 0.097 m. Capacitance Conductor to S Capacitance (pF/ft) 16.200	ronmental	Programs		
Nom. Dia. (in.) 0.275 icable Specifications and A plicable Standards & Envir Series Type: trical Characteristics m. Characteristic Impedance: Impedance (Ohm) 75 m. Inductance: Inductance (µH/ft) 0.097 m. Capacitance Conductor to S Capacitance (pF/ft) 16.200 minal Velocity of Propagation:	ronmental	Programs		
Nom. Dia. (in.) 0.275 icable Specifications and A plicable Standards & Envir Series Type: trical Characteristics m. Characteristic Impedance: Impedance (Ohm) 75 m. Inductance: Inductance (µH/ft) 0.097 m. Capacitance Conductor to S Capacitance (pF/ft) 16.200 minal Velocity of Propagation: VP (%)	ronmental	Programs		
Nom. Dia. (in.) 0.275 icable Specifications and A plicable Standards & Envir Series Type: trical Characteristics m. Characteristic Impedance: Impedance (Ohm) 75 m. Inductance: Inductance: Inductance (µH/ft) 0.097 m. Capacitance Conductor to S Capacitance (pF/ft) 16.200 minal Velocity of Propagation: VP (%) 83.000	ronmental	Programs		
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Nom. Dia. (in.) 0.275 icable Specifications and A plicable Standards & Envir Series Type: trical Characteristics m. Characteristic Impedance: Impedance (Ohm) 75 m. Inductance: Inductance (µH/ft) 0.097 m. Capacitance Conductor to S Capacitance (pF/ft) 16.200 minal Velocity of Propagation: VP (%) 83.000 minal Delay:	ronmental	Programs		
Nom. Dia. (in.) 0.275 icable Specifications and A plicable Standards & Envir Series Type: trical Characteristics m. Characteristic Impedance: Impedance (Ohm) 75 m. Inductance: Inductance: Inductance (µH/ft) 0.097 m. Capacitance Conductor to S Capacitance (pF/ft) 16.200 minal Velocity of Propagation: VP (%) 83.000 minal Delay: Delay (ns/ft)	ronmental	Programs		



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### 7878S Composite - Composite Data, Audio, Video, Security and Control Cable

		C Resistance:	
DCR @ 20°	C (Ohr	n/1000 ft)	
4.600			
inimum Stru	ctural	Return Loss:	
Start Freq.	(MHz)	Stop Freq. (MHz)	Min. SRL (dl
5.000		1000.000	20.000
1000.000		2250.000	15.000
2250.000		3000.000	10.000
om. Attenuat	tion:		
Freq. (MHz	) Atter	nuation (dB/100 ft	)
5.000	0.500	)	
55.000	1.400	)	
211.000	2.600	)	
500.000	4.100	)	
750.000	5.100	)	
862.000	5.500	)	
1000.000	6.000	)	-
1450.000	7.800	)	
1800.000	8.600	)	
2250.000	9.800	)	
3000.000	11.30	00	
ax. Attenuati	ion:		
Freq. (MHz	) Atter	nuation (dB/100 ft	)
5.000	0.670	)	
55.000	1.600	)	
211.000	2.870	)	
500.000	4.480	)	
750.000	5.590	)	
862.000	5.980	)	
1000.000	6.540	)	
1450.000	8.000	)	
1800.000	8.800	)	
2250.000	10.00	00	
3000.000	11.90	00	

350 V RMS

Shield	Effectiveness:

Start Frequency (MHz)	Stop Frequency (MHz)	Shield Effectiveness (dB)
5.000	50.000	105.000
50.000	1000.000	125.000

Other Electrical Characteristic 1:

Coax Sweep tested to 3.0 GHz.

#### **Twisted Pair**

#### **Physical Characteristics**

Conductor

#### AWG:

# Pairs AWG Stranding Conductor Material Dia. (in.)

#### 24 Solid BC - Bare Copper 0.020 8

Insulation

## Insulation Material:

Insulation Material Dia. (in.)

# PO - Polyolefin 0.035

Twisted Pair Color Code Chart:

### Number Color

1	White/Blue Stripe and Blue
2	White/Orange Stripe and Orange
3	White/Green Stripe and Green
4	White/Brown Stripe and Brown

**Outer Jacket** 

### Outer Jacket Material:

**Outer Jacket Material** 

PVC - Polyvinyl Chloride

Outer Jacket Diameter:



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	Nom. Dia.	. (in.)				
c	Outer Jacket	Ripcord:		Yes		
		acteristics				
_	m. Mutual Ca Capacitance	-				
	15.000					
	minal Veloci VP (%)	ty of Propagation:				
L	70.000					
		ductor DC Resistance: C (Ohm/100 m)				
Ma		Voltage - UL:				
	300 V RMS					
C	Other Electri	cal Characteristic 1:		Third party	verified to TIA/	EIA-568-B.2, Category 5E.
_		Electrical Table 1:				
	Freq. (MHz) 1.0	Max. Attenuation (dB/100 m) 2.000		Min. PSACR (dB) 60	Min RL (dB) 20.000	
		4.100		49	23.000	
		5.800		43	24.500	
ŀ	10.0	6.500		41	25.000	
ŀ	16.0	8.200	44.3	36	25.000	
		9.300		34	25.000	
	25.0	10.400		31	24.300	
	31.25	11.700		28	23.600	
	62.5	17.000		19	21.500	
L	100	22.000	32.3	11	20.100	
_		Electrical Table 2:				
		Input (Unfitted) Imp. (Ohms)		3)		
	1.0	100 ± 15%	60.8			
	4.0 8.0	100 ± 15% 100 ± 15%	48.7 42.7	_		
	10.0	100 ± 15%	40.8	_		
	16.0	100 ± 15%	36.7	-		
	20.0	100 ± 15%	34.7	-		
	25.0	100 ± 15%	32.8	-		
ŀ	31.25	100 ± 15%	30.9	-		
	62.5	100 ± 15%	24.8	-		
[	100	100 ± 15%	20.8			
Eiher						
Fiber	r sical Chara	ataviation				
-	Fiber Type:	clensucs		62.5/125/90	0 Microp	
_						
	Number of F			2		
	er Color Coo Number Co 1 Blu	lor				
		ange				
	Iter Jacket Outer Jacket					
	PVC - Pol	yvinyl Chloride				
C	Outer Jacket Nom. Dia. 0.175					
Phys	ical Char	acteristics (Overall)				
Oute	r Shield					
_	ter Shield M					
	Outer Shield Unshielded	d Material				



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)0 ft.
-63.1, Category 5e
ser
t when tested in accordance with IEC 61196-1.
It when tested in accordance with IEC 61196-1.
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 CXA 

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