


Low Loss 50 Ohm Wireless RF Transmission Cable

Series RF500

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/100 Ft.	dB/100m

7 AWG Solid .142" Bare Copper-covered Aluminum Conductor • Duobond® II (100% Coverage) + Tinned Copper Braid Shield (90% Coverage)


Foam HDPE Insulation • Black Polyethylene Jacket

	80°C	7976A <small>new</small>	—	500	152.4	56.0	25.4	7 AWG (solid) .142" BCCA .8Ω/M' 2.7Ω/km	.370	9.40	Duobond II* + 90% TC Braid 1.6Ω/M' 5.3Ω/km	.500	12.70	50	84%	25.1	82.4	30	.6	1.8
	1000		304.8	108.0	49.0	50	.7											2.4		
					150	1.2	3.9													
					220	1.5	4.9													
					450	2.2	7.2													
					900	3.2	10.5													
					1500	4.2	13.8													
					1800	4.7	15.4													
					2000	5.0	16.4													
					2500	5.7	18.7													
					3000	6.3	20.7													
					3500	6.9	22.6													
					4500	8.0	26.2													
				5800	9.3	30.5														
				6000	9.5	31.2														

100% Sweep tested.
Belden® The Wire in Wireless.

Suitable for Outdoor applications and Aerial applications when supported by a Messenger wire.


Foam HDPE Insulation • Black PVC Jacket

	80°C	7976R <small>new</small>	NEC: 500	152.4	67.5	30.6	7 AWG (solid) .142" BCCA .8Ω/M' 2.7Ω/km	.370	9.40	Duobond II* + 90% TC Braid 1.6Ω/M' 5.3Ω/km	.500	12.70	50	84%	25.1	82.4	30	.6	1.8
	1000		304.8	131.0	59.5	50											.7	2.4	
					150	1.2											3.9		
					220	1.5											4.9		
					450	2.2											7.2		
					900	3.2											10.5		
					1500	4.2											13.8		
					1800	4.7											15.4		
					2000	5.0											16.4		
					2500	5.7											18.7		
					3000	6.3											20.7		
					3500	6.9											22.6		
					4500	8.0											26.2		
				5800	9.3	30.5													
				6000	9.5	31.2													

100% Sweep tested.
Belden® The Wire in Wireless.

Suitable for Outdoor applications and Aerial applications when supported by a Messenger wire.

Foam HDPE Insulation • Flooded Water-resistant Black Polyethylene Jacket

	80°C	7976WB <small>new</small>	—	500	152.4	56.5	25.7	7 AWG (solid) .142" BCCA .8Ω/M' 2.7Ω/km	.370	9.40	Duobond II* + 90% TC Braid 1.6Ω/M' 5.3Ω/km	.500	12.70	50	84%	25.1	82.4	30	.6	1.8
	1000		304.8	109.0	49.9	50	.7											2.4		
					150	1.2	3.9													
					220	1.5	4.9													
					450	2.2	7.2													
					900	3.2	10.5													
					1500	4.2	13.8													
					1800	4.7	15.4													
					2000	5.0	16.4													
					2500	5.7	18.7													
					3000	6.3	20.7													
					3500	6.9	22.6													
					4500	8.0	26.2													
				5800	9.3	30.5														
				6000	9.5	31.2														

100% Sweep tested.
Belden® The Wire in Wireless.

Suitable for Outdoor and Direct Burial applications and Aerial applications when supported by a Messenger wire.

BCCA = Bare Copper-covered Aluminum • DCR = DC Resistance • HDPE = High-density Polyethylene • TC = Tinned Copper

*Duobond II = Bonded Duofoil® (100% coverage) + aluminum braid (67% coverage).

