



### RapidRun® DB9 Flying Lead

- Color Code: Yellow (for use with PC runners)
- Supports transmissions of serial control signals including RS-232
- Three 28AWG coaxial cables with braided copper shielding, three 24AWG twisted pair, and a single 24AWG pair
- Lifetime Warranty

\*The specifications apply only to the raw cable used to construct the cable assemblies

# Specifications: RapidRun® DB9 Flying Lead

## Electrical Characteristics:

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### 3 Coax Conductors:

Impedance:	75 ± 5Ω			
Capacitance:	71 ± 2pF/ ft nom			
Velocity of Propagation:	78 ± 1%			
DC Resistance:	237 ± 10Ω/km			
Dielectric Strength:	500VAC/1 minute min.			
Insulation Resistance (500V):	10MΩ/KM			
Attenuation (dB/6m):		Red Coax	Green Coax	Blue Coax
	1MHz	0.1464	0.1376	0.1419
	10MHz	0.86	0.97	0.4058
	100MHz	2.98	3.23	1.259
	200MHz	4.45	4.87	1.823
	500MHz	6.72	7.75	3.0028
	700MHz	9.95	12.01	3.64
	1000MHz	13.20	17.52	4.5923

### 3 Twisted Pair Conductors

DC Resistance:	93.25Ω/m at 20°C
Dielectric Strength:	750VAC/ minute min.
Insulation Resistance:	100Mohm/KM at 20°C

## Physical Characteristics:

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Voltage Rating:	30V
Temperature Rating:	80°C
Temperature Range:	-25° ~ 80°C
Minimum Bend Radius:	90mm
Approvals:	RoHS Compliant
Warranty:	Lifetime
Package Type:	Polybag

Item	Description	Weight (lbs)
42153	1.5 ft RapidRun DB9 Flying Lead	0.26
42154	3 ft RapidRun DB9 Flying Lead	0.37
42155	6 ft RapidRun DB9 Flying Lead	0.61
42156	10 ft RapidRun DB9 Flying Lead	0.93

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### Conductor (Qty. 3):

Conductor Type:	28AWG 7/0.127 Tinned Copper
Dielectric:	Minimum Avg. Thickness: 1.57mm Foam PE
Shield:	Spiral 90% Coverage Tinned Copper
Insulation:	Minimum Avg. Thickness: 0.23mm PVC: (1) red, (1) blue, (1) green

### Conductor (Qty. 3 twisted pair + 2 conductors):

Conductor Type:	24AWG 7/0.2 Tinned Copper
Insulation:	Minimum Avg. Thickness: 0.23mm PVC

### Overall Cable:

Shield:	Aluminum Mylar Wrap – 100% Braided Shield 24/8/0.12 - 85% Coverage - Tinned Copper
Jacket:	Minimum Avg. Thickness – 0.76mm Matte PVC Yellow Heat Shrink

### DB9 Connector (Qty. 1):

Connector Type:	DB9
Gender:	Male
Contact Material:	Brass, 3µm Gold Plating
Insulation:	Black PBT

Note: Pin 6 is not loaded. All other pins are wired straight through.

### RapidRun Din Connector (Qty. 1):

Connector Type:	DIN 15 pin
Gender:	Male
Contact Material:	Brass, 3µm Gold Plating
Insulation:	Black PBT

