


Order number [050310](#)

50 Ohm RF Coaxial Cable  
 Manufactured in compliance with MIL-C-17F Standards  
 In accordance to: IEC 60092-359 IEC 60332-1-2 IEC 60332-3-22A  
 IEC 60754-1 IEC 60754-2 IEC 60811-3-1 IEC 61034-2

## STRUCTURE

	<b>INNER CONDUCTOR</b>	Tinned Copper	19 x 0.18	Ø mm
	<b>DIELECTRIC</b>	Low Density Polyethylene	2.95	Ø mm ± 0.10
	<b>SHIELD</b>	Aluminium + Polyester + Aluminium Tape Coverage 100 %	0.15	mm
	<b>BRAID</b>	Tinned Copper Coverage 93%	112 x 0.13	mm
	<b>SHEATH</b>	Flame Retardant Non-Corrosive Thermoplastic Free of Halogens, Colour Black	5.00	Ø mm ± 0.20

## ELECTRICAL DATA at 20 °C

<b>Impedance</b>	50 Ohm ± 2
<b>Capacitance</b>	100 pF/m
<b>Velocity ratio</b>	66 %
<b>Resistance</b>	
- inner conductor	36.5 Ohm/km
- braid	12.0 Ohm/km
<b>Tension</b>	
- sheat spark testing	3.5 kV

## MECHANICAL DATA

<b>Cable weight</b>	41.0 kg/km
- copper	18.7
- plastic	20.9
<b>Minimum bending radius</b>	
- single	Ext x 5
- repeated	Ext x 10
<b>Temperature range</b>	-30 ... +70 °C

### Attenuations dB/100m · Max. power rating W

MHz	5	10	50	150	220	450	600	800	900	1000	1500	1800	2000	2500	3000
dB	3.0	4.1	9.7	16.4	20.1	30.0	35.4	41.6	44.5	47.5	60.9	68.1	73.3	85.1	91.3

### Structural return loss dB

MHz	30 - 450	450 - 1000	1000 - 2000	2000 - 3000
dB	> 27	> 25	> 20	> 18

### Screening effectiveness dB

MHz	100 - 900	900 - 2000	2000 - 3000
dB	> 90	> 80	> 70

If not otherwise declared, all values are nominal. Changes in design and construction due to technical progress without notice.