

Technical Document
WEB300 50ohm Low Loss Coaxial Cable
PE Black

webro

Part Number: 140300F-BLK

Description: WEB300 50ohm Low Loss Coaxial
Cable PE Black



Product Construction

Conductor Material	:	Plain Annealed Copper
Conductor Stranding	:	Solid, 1/1.78mm
Dielectric Material	:	Foam Polyethylene (FPE)
Dielectric Diameter	:	4.83mm ± 0.10
Screening 1	:	Overall Bonded Aluminium Foil
Screening 1 Coverage	:	> 100%
Screening 2	:	Tinned Copper Wire Braid
Screening 2 Coverage	:	> 90% ± 3
Sheath Material	:	Polyethylene (PE)
Sheath Colour	:	Black



Mechanical Characteristics

Overall Diameter	:	7.6mm ± 0.15mm	
Temperature Range	:	Fixed -15°C to +70°C	Flexing -5°C to +70°C
Bend Radius	:	10 x Overall Diameter	
Weight	:	89kg/km	

Electrical Characteristics

Inner Conductor DC Resistance	:	≤ 8.0 Ω/km @ 20°C
Outer Conductor DC Resistance	:	≤ 7.3 Ω /km @ 20°C
Insulation Resistance	:	5000 MΩ.kM
Characteristic Impedance	:	50 Ω ± 3 Ω
Nominal Capacitance	:	82 pF/m
Velocity of Propagation	:	82%
Peak Power	:	10 kW
Shielding Effectiveness	:	> 90 dB

Attenuation @20°C

Frequency (MHz)	Attenuation (per 100m)	Attenuation (per 100ft)	Power kW	Frequency (MHz)	Attenuation (per 100m)	Attenuation (per 100ft)	Power kW
30	≤ 3.5	≤ 1.1	2.09	1500	≤ 0.28	≤ 7.9	0.25
50	≤ 4.5	≤ 1.4	1.62	1800	≤ 0.25	≤ 8.7	0.25
150	≤ 7.9	≤ 2.4	0.92	2000	≤ 0.24	≤ 9.2	0.24
220	≤ 9.6	≤ 2.9	0.76	2500	≤ 0.21	≤ 10.4	0.21
450	≤ 13.8	≤ 4.2	0.52	5800	≤ 0.13	≤ 16.5	0.13
900	≤ 19.9	≤ 6.1	0.36				

Certifications & Standards

RoHS 3 Compliant	:	Yes
REACH Compliant	:	Yes
UKCA CPR Classification	:	Fca to BS EN 50575:2014+A1:2016

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