

Technical Document
WEB400 50ohm Low Loss Coaxial Cable
PE Black



Part Number: 140400F-BLK

Description: WEB400 50ohm Low Loss Coaxial
Cable PE Black



Product Construction

Conductor Material	:	Copper Clad Aluminium
Conductor Stranding	:	Solid, 1/2.74mm
Dielectric Material	:	Foam Polyethylene (FPE)
Dielectric Diameter	:	7.24mm \pm 0.10
Screening 1	:	Overall Bonded Aluminium Foil
Screening 1 Coverage	:	> 100%
Screening 2	:	Tinned Copper Wire Braid
Screening 2 Coverage	:	> 90% \pm 3
Sheath Material	:	Polyethylene (PE)
Sheath Colour	:	Black



Mechanical Characteristics

Overall Diameter	:	10.3mm \pm 0.20mm	
Temperature Range	:	Fixed -15°C to +70°C	Flexing -5°C to +70°C
Bend Radius	:	10 x Overall Diameter	
Weight	:	120kg/km	

Electrical Characteristics

Inner Conductor DC Resistance	:	\leq 4.8 Ω /km @ 20°C
Outer Conductor DC Resistance	:	\leq 5.9 Ω /km @ 20°C
Insulation Resistance	:	5000 M Ω .km
Characteristic Impedance	:	50 Ω \pm 3 Ω
Nominal Capacitance	:	78 pF/m
Velocity of Propagation	:	84%
Peak Power	:	16 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	\leq 2.2 dB	\leq 0.7 dB	3.33	1500	\leq 16.8 dB	\leq 5.1 dB	0.44
50	\leq 2.9 dB	\leq 0.9 dB	2.57	1800	\leq 18.6 dB	\leq 5.7 dB	0.40
150	\leq 5.0 dB	\leq 1.5 dB	1.47	2000	\leq 19.6 dB	\leq 6.0 dB	0.37
220	\leq 6.1 dB	\leq 1.9 dB	1.20	2500	\leq 22.2 dB	\leq 6.8 dB	0.33
450	\leq 8.9 dB	\leq 2.7 dB	0.83	5800	\leq 35.5 dB	\leq 10.8 dB	0.21
900	\leq 12.8 dB	\leq 3.9 dB	0.58				

Certifications & Standards

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

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