

# Technical Document

## WEB240 50ohm Low Loss Coaxial Cable

### PE Black

# webro

Part Number: 140240F-BLK

Description: WEB240 50ohm Low Loss Coaxial Cable PE Black



#### Product Construction

Conductor Material	:	Plain Annealed Copper
Conductor Stranding	:	Solid, 1/1.42mm
Dielectric Material	:	Foam Polyethylene (FPE)
Dielectric Diameter	:	3.81mm ± 0.15
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	:	6.1mm ± 0.15mm	
Temperature Range	:	Fixed -15°C to +70°C	Flexing -5°C to +70°C
Bend Radius	:	10 x Overall Diameter	
Weight	:	61kg/km	

#### Electrical Characteristics

Inner Conductor DC Resistance	:	≤ 11.5 Ω/km @ 20°C
Outer Conductor DC Resistance	:	≤ 13.5 Ω /km @ 20°C
Insulation Resistance	:	5000 MΩ.km
Characteristic Impedance	:	50 Ω ± 3 Ω
Nominal Capacitance	:	83 pF/m
Velocity of Propagation	:	80%
Peak Power	:	5.6 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	≤ 4.4 dB	≤ 1.3 dB	1.49	1500	≤ 32.4 dB	≤ 9.9 dB	0.20
50	≤ 5.7 dB	≤ 1.7 dB	1.15	1800	≤ 35.6 dB	≤ 10.9 dB	0.18
150	≤ 9.9 dB	≤ 3.0 dB	0.66	2000	≤ 37.7 dB	≤ 11.5 dB	0.17
220	≤ 12.0 dB	≤ 3.7 dB	0.54	2500	≤ 42.4 dB	≤ 12.9 dB	0.15
450	≤ 17.3 dB	≤ 5.3 dB	0.38	5800	≤ 79.7 dB	≤ 20.4 dB	0.10
900	≤ 24.8 dB	≤ 7.6 dB	0.26				

#### Certifications & Standards

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

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