

Technical Document  
WEB240 50ohm Low Loss Coaxial Cable  
Ultraflex TPE Black

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Part Number: 140240UF-TPE-BLK

Description: WEB240 50ohm Low Loss Coaxial  
Cable Ultraflex TPE Black



**Product Construction**

Conductor Material	:	Plain Annealed Copper
Conductor Stranding	:	Stranded, 7/0.485mm
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	:	Thermoplastic Elastomer (TPE)
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	:	≤ 14.2 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	:	78 pF/m
Velocity of Propagation	:	84%
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	≤ 5.3 dB	≤ 1.6 dB	1.24	1500	≤ 38.9 dB	≤ 11.8 dB	0.17
50	≤ 6.8 dB	≤ 2.1 dB	0.96	1800	≤ 42.8 dB	≤ 13.0 dB	0.15
150	≤ 11.9 dB	≤ 3.6 dB	0.55	2000	≤ 45.2 dB	≤ 13.8 dB	0.14
220	≤ 14.4 dB	≤ 4.4 dB	0.45	2500	≤ 50.9 dB	≤ 15.5 dB	0.13
450	≤ 20.8 dB	≤ 6.3 dB	0.31	5800	≤ 80.1 dB	≤ 24.4 dB	0.08
900	≤ 29.8 dB	≤ 9.1 dB	0.22				

**Certifications & Standards**

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

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