

Technical Document

WEB400 50ohm Low Loss Coaxial Cable

Ultraflex TPE Black

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Part Number: 140400UF-TPE-BLK

Description: WEB400 50ohm Low Loss Coaxial Cable Ultraflex TPE Black



Product Construction

Conductor Material	:	Plain Annealed Copper
Conductor Stranding	:	Stranded, 7/0.95mm
Dielectric Material	:	Foam Polyethylene (FPE)
Dielectric Diameter	:	7.24mm ± 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	:	Thermoplastic Elastomer (TPE)
Sheath Colour	:	Black



Mechanical Characteristics

Overall Diameter	:	10.3mm ± 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	:	≤ 3.7 Ω/km @ 20°C
Outer Conductor DC Resistance	:	≤ 5.9 Ω /km @ 20°C
Insulation Resistance	:	5000 MΩ.kM
Characteristic Impedance	:	50 Ω ± 3 Ω
Nominal Capacitance	:	78 pF/m
Velocity of Propagation	:	83%
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	≤ 2.7 dB	≤ 0.8 dB	2.77	1500	≤ 20.2 dB	≤ 6.2 dB	0.36
50	≤ 3.5 dB	≤ 1.1 dB	2.14	1800	≤ 22.3 dB	≤ 6.8 dB	0.33
150	≤ 6.1 dB	≤ 1.8 dB	1.22	2000	≤ 23.6 dB	≤ 7.2 dB	0.31
220	≤ 7.4 dB	≤ 2.2 dB	1.00	2500	≤ 26.6 dB	≤ 8.1 dB	0.28
450	≤ 10.7 dB	≤ 3.3 dB	0.69	5800	≤ 42.6 dB	≤ 13.0 dB	0.17
900	≤ 15.4 dB	≤ 4.7 dB	0.48				

Certifications & Standards

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

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