

Part Number: 590001F-TPE-BLK  
 Description: WF100 75ohm Coax TPE Black - CAI  
 Approved



**Product Construction**

Conductor Material	:	Plain Annealed Copper
Conductor Stranding	:	Solid, 1/1.00mm
Dielectric Material	:	Foam Polyethylene (FPE)
Dielectric Diameter	:	4.60mm ± 0.10
Screening 1	:	Overall Plain Copper Foil
Screening 1 Coverage	:	> 100%
Screening 2	:	Plain Copper Wire Braid
Screening 2 Coverage	:	> 55% ± 3
Sheath Material	:	Thermoplastic Elastomer (TPE)
Sheath Colour	:	Black



**Mechanical Characteristics**

Overall Diameter	:	6.65mm ± 0.3mm
Temperature Range	Fixed	-15°C to +70°C
	Flexing	-5°C to +70°C
Bend Radius	:	10 x Overall Diameter
Weight	:	51 kg/km

**Electrical Characteristics**

Inner Conductor DC Resistance	:	≤ 26 Ω/km @ 20°C
Outer Conductor DC Resistance	:	≤ 15 Ω /km @ 20°C
Characteristic Impedance	:	75 Ω ± 3
Nominal Capacitance	:	54 pF/m ± 3
Velocity of Propagation	:	82%

**Attenuation @20°C**

Frequency (MHz)	Attenuation (per 100m)	Frequency (MHz)	Attenuation (per 100m)
5	≤ 1.6 dB	860	≤ 19.5 dB
50	≤ 4.6 dB	1000	≤ 21.5 dB
100	≤ 6.5 dB	1750	≤ 29.0 dB
200	≤ 9.5 dB	2150	≤ 32.5 dB
460	≤ 15.0 dB		

**Return Loss @ 20°C**

Frequency (MHz)	Return Loss
5MHz - 470MHz	≥ 23 dB
470MHz - 862MHz	≥ 20 dB
862MHz - 2150MHz	≥ 18 dB

**Certifications & Standards**

CAI Certification	:	CAI 0116F
Screening Class	:	BS EN 50117
RoHS 3 Compliant	:	Yes
REACH Compliant	:	Yes
UKCA CPR Classification	:	Fca to BS EN 50575:2014+A1:2016



Publication Date: 27/01/2023  
 Revision Number: 2.0  
 Written by: GB  
 Authorised by: GB

**Webro Cables & Connectors Ltd**

Vision House, Meadow Brooks Business Park, Meadow Lane, Long Eaton, Nottingham NG10 2GD, UK  
 Tel: +44 (0)115 9724483 | Fax: +44 (0)115 9461230 | sales@webro.com | [www.webro.com](http://www.webro.com)

This technical document and its information and images are intended for guidance only. Due to technical improvements, manufacturing changes or commercial factors the product may vary, and we reserve the right without notice or liability to amend the product information.