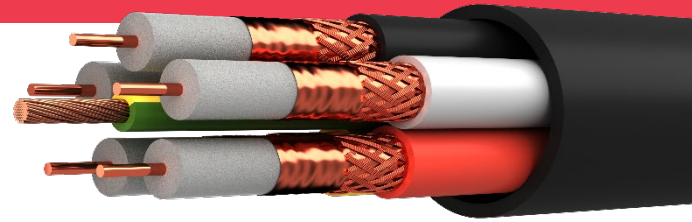


Technical Document  
WF100 5core + Earth 75ohm Coax  
LSF Black

webro



Part Number: 600200E-BLK-LSF  
Description: WF100 5core + Earth 75ohm Coax  
Low Smoke & Fume (LSF) Black

Product Construction

Coaxial Cable x 5  
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 >100%  
Screening 2 : Plain Copper Wire Braid > 55% ± 3  
Sheath Material : Low Smoke & Fume (LSF)  
Sheath Colours : Red, Yellow, White, Green, Black

Earth

Conductor Material : Plain Annealed Copper  
Conductor Stranding : 4mm<sup>2</sup>, Class 5  
Insulation Material : Low Smoke & Fume (LSF)  
Insulation Colour : Green/Yellow

Overall Construction

Sheath Material : Low Smoke & Fume (LSF)  
Sheath Colour : Black

Mechanical Characteristics

Overall Diameter : 21.0mm ± 0.3mm  
Temperature Range Fixed : -15°C to +70°C  
Flexing : -5°C to +70°C  
Bend Radius : 10 x Overall Diameter  
Weight : 520 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

Flame Retardancy : BS EN 60332-1-2  
UKCA CPR Classification : Eca to BS EN 50575:2014+A1:2016  
RoHS 3 Compliant : Yes  
REACH Compliant : Yes

CEDIA<sup>®</sup>  
MEMBER

Publication Date: 28/01/2023  
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.