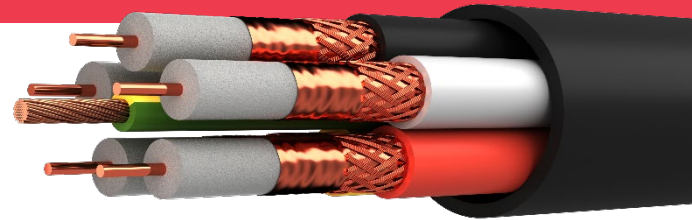


Technical Document
 WF100 5core + Earth 75ohm Coax
 LSF Black



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 ² , 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	RoHS 3 Compliant	:	Yes
UKCA CPR Classification	:	Eca to BS EN 50575:2014+A1:2016	REACH Compliant	:	Yes



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