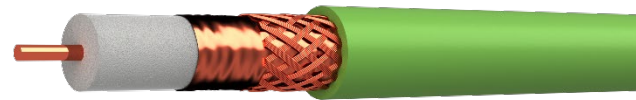


Technical Document
WF165 75ohm Coax
Underground Green CAI Approved

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Part Number: 600010F-GRN

Description: WF165 75ohm Coax Underground
Green - CAI Approved



Product Construction

Conductor Material	:	Plain Annealed Copper
Conductor Stranding	:	Solid, 1/1.65mm
Dielectric Material	:	Foam Polyethylene (FPE)
Dielectric Diameter	:	7.28mm $\pm$ 0.15
Screening 1	:	Overall Plain Copper Foil
Screening 1 Coverage	:	> 100%
Screening 2	:	Plain Copper Wire Braid
Screening 2 Coverage	:	> 60% $\pm$ 3
Sheath Material	:	High Density Polyethylene (HDPE)
Sheath Colour	:	Green



Mechanical Characteristics

Overall Diameter	:	10.1mm $\pm$ 0.3mm
Temperature Range	Fixed	-15°C to +70°C
	Flexing	-5°C to +70°C
Bend Radius	:	10 x Overall Diameter
Weight	:	98 kg/km

Electrical Characteristics

Inner Conductor DC Resistance	:	$\leq$ 10.5 Ω /km @ 20°C
Outer Conductor DC Resistance	:	$\leq$ 12.0 Ω /km @ 20°C
Characteristic Impedance	:	75 Ω $\pm$ 3
Nominal Capacitance	:	54 pF/m $\pm$ 3
Velocity of Propagation	:	82%

Attenuation @20°C

Frequency (MHz)	Attenuation (per 100m)	Frequency (MHz)	Attenuation (per 100m)
5	$\leq$ 1.0 dB	860	$\leq$ 12.5 dB
50	$\leq$ 3.0 dB	1000	$\leq$ 13.5 dB
100	$\leq$ 4.0 dB	1750	$\leq$ 19.0 dB
200	$\leq$ 6.0 dB	2150	$\leq$ 22.0 dB
460	$\leq$ 9.0 dB		

Return Loss @ 20°C

Frequency (MHz)	Return Loss
5MHz - 470MHz	$\geq$ 23 dB
470MHz - 862MHz	$\geq$ 20 dB
862MHz - 2150MHz	$\geq$ 18 dB

Certifications & Standards

CAI Certification	:	CAI 0141E
Screening Class	:	BS EN 50117
RoHS 3 Compliant	:	Yes
REACH Compliant	:	Yes
UKCA CPR Classification	:	Fca to BS EN 50575:2014+A1:2016



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