Cabelcon
An Amphenol Company

Datasheet

Item no.	53030300-02

FM-TL303
CommScope CL 2.1/8.8

Frequency Range	0.3 - 3000 MHz
Impedance (Nom.)	75 Ω
	5.0 A @10°C increase
(calculated)	7.0 A @20°C increase

Product photo

Transfer Impedance (CoMeT)	Class A++
	<0.9 mΩ/m @ 5-30MHz
	<0.05 mΩ/item @ 5-30MHz
Screening Attenuation(CoMeT)	Class A++
	>140 dB @ 30-1000MHz
	>135 dB @ 1000-2000MHz
	>130 dB @ 2000-3000MHz

Return Loss (IEC 61169-1)	Better than	Typical
0.3 - 500 MHz	-35 dB	-37.7 dB
500 - 860 MHz	-33 dB	-35.8 dB
860 - 1000 MHz	-32 dB	-35.0 dB
1000 - 1750 MHz	-30 dB	-32.6 dB
1750 - 2150 MHz	-30 dB	-32.6 dB
2150 - 3000 MHz	-30 dB	-32.6 dB

Insertion Loss Max.	Better than	Typical
0.3 - 500 MHz	-0.06 dB	-0.01 dB
500 - 860 MHz	-0.07 dB	-0.02 dB
860 - 1000 MHz	-0.07 dB	-0.02 dB
1000 - 1750 MHz	-0.07 dB	-0.02 dB
1750 - 2150 MHz	-0.07 dB	-0.02 dB
2150 - 3000 MHz	-0.07 dB	-0.02 dB

Temperature	
Installing	-5° to +50° C
Operating	-40° to +70° C
Storing	-40° to +70° C

Intermodulation	IM3	
3rd Order (@2x+33dBm)	-163 dBc	

Inner Conductor Resistance (@ 1 A DC)	<1.3 mΩ

Sealing Test (IEC IP-code)	IP X8 30 meter / 8 hours

Insulation Resistance (@ 500 VDC)	>200 GΩ

O-rings	EPDM

Dielectric Strength DC Test Voltage	>3.0 KV

Base Material	
Body Parts	Brass CuZn39Pb3
Inner Conductor	Brass CuZn39Pb3

Max. Tensile Strength	
Overall	>1766 N
Inner Conductor	>225 N

Plating	
Body Parts	Nitin-6
Inner Conductor	Nitin-6

Torsional Strength (Connector / Cable)	>7.0 Nm

Insulators	COC (Topas) / PP with Glass

Test performed by	Søren B. Sørensen
Date	December 03, 2013

Remarks

All tests performed using instruments calibrated in accordance to our ISO 9001 certification.
Further technical specifications and installation instructions can be obtained on request.

Distributor:

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ISO 9001 / ISO 14001 certified
Cabelcon Public