

Item no. 51030300-01

Connector type 3.5/12F-TL303
For cable CommScope CL 2.1/8.8

Frequency Range 0.3 - 3000 MHz
Impedance (Nom.) 75 Ω
Amp. Rating (measured) 13.0 A @10°C increase
(calculated) 18.3 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
>130 dB @ 1000-3000MHz

Return Loss (IEC 61169-1)	Better than	Typical
0.3 - 500 MHz	-37 dB	-40.1 dB
500 - 860 MHz	-37 dB	-40.1 dB
860 - 1000 MHz	-37 dB	-39.7 dB
1000 - 1750 MHz	-33 dB	-35.5 dB
1750 - 2150 MHz	-29 dB	-31.7 dB
2150 - 3000 MHz	-25 dB	-27.8 dB

Insertion Loss Max.	Better than	Typical
0.3 - 500 MHz	-0.13 dB	-0.08 dB
500 - 860 MHz	-0.15 dB	-0.10 dB
860 - 1000 MHz	-0.15 dB	-0.10 dB
1000 - 1750 MHz	-0.19 dB	-0.14 dB
1750 - 2150 MHz	-0.22 dB	-0.17 dB
2150 - 3000 MHz	-0.26 dB	-0.21 dB

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

Intermodulation
3rd Order (@2x+37dBm) IM3
-165 dBc

Inner Conductor Resistance
(@ 1 A DC) <0.9 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 >3.5 KV

Base Material
Body Parts Brass CuZn39Pb3
Inner Conductor Tin Bronze BZ4

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

Plating
Body Parts Nitin-6
Inner Conductor Nitin-6

Torsional Strength
(Connector / Cable) * NATM

Insulators COC (Topas) / PP with Glass

Test performed by Sven-Erik Sandberg
Date of release December 27, 2013

Remarks * Not Able To Measure(NATM): The cable starts to twist without the connector loosing its grip.

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