

Item no. 49061600-01

3.5/12M-TL616  
CommScope CA 519 JSC

**Frequency Range** 0.3 - 3000 MHz  
**Impedance (Nom.)** 75 Ω  
(calculated) 16.0 A @10°C increase  
22.6 A @20°C increase

Product photo



**Transfer Impedance (CoMeT)** Class A++  
<0.9 mΩ/m @ 5-30MHz

**Screening Attenuation(CoMeT)** Class A++  
>135 dB @ 30-1000MHz  
>135 dB @ 1000-2000MHz  
>130 dB @ 2000-3000MHz

Return Loss (IEC 61169-1)	Better than	Typical
0.3 - 500 MHz	-36 dB	-38.8 dB
500 - 860 MHz	-33 dB	-35.9 dB
860 - 1000 MHz	-32 dB	-35.1 dB
1000 - 1750 MHz	-30 dB	-33.0 dB
1750 - 2150 MHz	-29 dB	-32.4 dB
2150 - 3000 MHz	-29 dB	-31.6 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	-0.09 dB	-0.04 dB

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

**Intermodulation** IM3  
3rd Order (@2x+43dBm) -165 dBc

**Inner Conductor Resistance**  
(@ 1 A DC) <0.6 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 Brass CuZn39Pb3

**Max. Tensile Strength**  
Overall >1962 N  
Inner Conductor >300 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 of release** February 07, 2014

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.*