

Item no. 49041400-01

3.5/12M-TL414
CommScope CA 514 J

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++
>125 dB @ 30-1000MHz
>120 dB @ 1000-2000MHz
>110 dB @ 2000-3000MHz

Return Loss (IEC 61169-1)	Better than	Typical
0.3 - 500 MHz	-34 dB	-36.9 dB
500 - 860 MHz	-34 dB	-36.9 dB
860 - 1000 MHz	-34 dB	-36.9 dB
1000 - 1750 MHz	-30 dB	-33.1 dB
1750 - 2150 MHz	-27 dB	-30.3 dB
2150 - 3000 MHz	-25 dB	-27.7 dB

Insertion Loss Max.	Better than	Typical
0.3 - 500 MHz	-0.06 dB	-0.01 dB
500 - 860 MHz	-0.06 dB	-0.01 dB
860 - 1000 MHz	-0.06 dB	-0.01 dB
1000 - 1750 MHz	-0.07 dB	-0.02 dB
1750 - 2150 MHz	-0.08 dB	-0.03 dB
2150 - 3000 MHz	-0.10 dB	-0.05 dB

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

Intermodulation IM3
3rd Order (@2x+37dBm) -160 dBc

Inner Conductor Resistance (@ 1 A DC) <0.5 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 >933 N
Inner Conductor >500 N

Plating
Body Parts Nitin-6
Inner Conductor Nitin-6

Torsional Strength (Connector / Cable) >5.0 Nm

Insulators COC (Topas) / PP with Glass

Test performed by Sven-Erik Sandberg
Date of release November 20, 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.*