

Item no. 

31000414-01

SP TL414
CommScope CA 514 JSC

**Frequency Range**

0.3 - 3000 MHz
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**Impedance (Nom.)**

75 Ω
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(calculated) 

20.5 A @10°C increase
28.9 A @20°C increase

Product photo



**Transfer Impedance (CoMeT)**

Class A++
<0.9 mΩ/m @ 5-30MHz
<0.09 mΩ/item @ 5-30MHz

  
**Screening Attenuation(CoMeT)**

Class A++
>135 dB @ 30-1000MHz
>130 dB @ 1000-2000MHz
>125 dB @ 2000-3000MHz

Return Loss (IEC 61169-1)	Better than	Typical
0.3 - 500 MHz	-30 dB	-33.2 dB
500 - 860 MHz	-26 dB	-29.4 dB
860 - 1000 MHz	-26 dB	-28.6 dB
1000 - 1750 MHz	-22 dB	-25.3 dB
1750 - 2150 MHz	-20 dB	-22.4 dB
2150 - 3000 MHz	-16 dB	-18.5 dB

Insertion Loss Max.	Better than	Typical
0.3 - 500 MHz	-0.12 dB	-0.07 dB
500 - 860 MHz	-0.20 dB	-0.15 dB
860 - 1000 MHz	-0.24 dB	-0.19 dB
1000 - 1750 MHz	-0.60 dB	-0.55 dB
1750 - 2150 MHz	-0.65 dB	-0.60 dB
2150 - 3000 MHz	-0.68 dB	-0.63 dB

**Temperature**  
**Installing**

-5° to +50° C
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**Operating**

-40° to +70° C
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**Storing**

-40° to +70° C
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**Intermodulation**  
**3rd Order (@2x+37dBm)**

IM3	-155 dBc
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**Inner Conductor Resistance (@ 1 A DC)**

<0.7 mΩ
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**Sealing Test (IEC IP-code)**

IP X8 30 meter / 8 hours
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**Insulation Resistance (@ 500 VDC)**

>200 GΩ
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**O-rings**

EPDM
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**Dielectric Strength DC Test Voltage**

>3.5 KV
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**Base Material**  
**Body Parts**

Brass CuZn39Pb3
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**Inner Conductor**

Brass CuZn39Pb3
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**Max. Tensile Strength**  
**Overall**

>933 N
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**Inner Conductor**

>500 N
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**Plating**  
**Body Parts**

Nitin-6
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**Inner Conductor**

Nitin-6
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**Torsional Strength (Connector / Cable)**

>5.0 Nm
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**Insulators**

PP with Glass / COC (Topas)
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**Test performed by**

Søren B. Sørensen
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**Date of release**

November 29, 2013
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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.*