

Item no. 31000303-01

SP TL303
CommScope CL 2.1 / 8.8

Frequency Range 0.3 - 3000 MHz
Impedance (Nom.) 75 Ω
(calculated) 19.0 A @10°C increase
26.8 A @20°C increase

Product photo



Transfer Impedance (CoMeT) Class A++
<0.9 mΩ/m @ 5-30MHz
<0.1 mΩ/item @ 5-30MHz
Screening Attenuation(CoMeT) Class A++
>134 dB @ 30-1000MHz
>133 dB @ 1000-2000MHz
>115 dB @ 2000-3000MHz

Return Loss (IEC 61169-1)	Better than	Typical
0.3 - 500 MHz	-39 dB	-42.1 dB
500 - 860 MHz	-39 dB	-42.1 dB
860 - 1000 MHz	-39 dB	-42.1 dB
1000 - 1750 MHz	-26 dB	-29.1 dB
1750 - 2150 MHz	-22 dB	-25.2 dB
2150 - 3000 MHz	-19 dB	-22.2 dB

Insertion Loss Max.	Better than	Typical
0.3 - 500 MHz	-0.07 dB	-0.02 dB
500 - 860 MHz	-0.07 dB	-0.02 dB
860 - 1000 MHz	-0.08 dB	-0.03 dB
1000 - 1750 MHz	-0.09 dB	-0.04 dB
1750 - 2150 MHz	-0.09 dB	-0.04 dB
2150 - 3000 MHz	-0.11 dB	-0.06 dB

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

Intermodulation IM3
3rd Order (@2x+37dBm) -155 dBc

Inner Conductor Resistance
(@ 1 A DC) <1.9 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 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) * NATM

Insulators COC (Topas) / PP with Glass

Test performed by Søren B. Sørensen
Date of release October 04, 2013

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