

Item no. **53030900-01**

Connector type **FM-TL309**  
For cable **Ören HQ2203 PEF Class A+**

Frequency Range **0.3 - 3000 MHz**  
Impedance (Nom.) **75 Ω**  
Amp. Rating (measured) **4.5 A @10°C increase**  
(calculated) **6.9 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++**  
**>125 dB @ 30-1000MHz**  
**>125 dB @ 1000-2000MHz**  
**>110 dB @ 2000-3000MHz**

Return Loss (IEC 61169-1)	Better than	Typical
0.3 - 500 MHz	-28 dB	-31.0 dB
500 - 860 MHz	-27 dB	-29.8 dB
860 - 1000 MHz	-26 dB	-29.3 dB
1000 - 1750 MHz	-25 dB	-28.3 dB
1750 - 2150 MHz	-25 dB	-28.3 dB
2150 - 3000 MHz	-25 dB	-28.3 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	-0.08 dB	-0.03 dB
1750 - 2150 MHz	-0.08 dB	-0.03 dB
2150 - 3000 MHz	-0.08 dB	-0.03 dB

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

Intermodulation **IM3**  
3rd Order (@2x+30dBm) **-155 dBc**

Inner Conductor Resistance (@ 1 A DC) **<2.0 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 **>2.0 KV**

Base Material  
Body Parts **Brass CuZn39Pb3**  
Inner Conductor **Brass CuZn39Pb3**

Max. Tensile Strength  
Overall **>1100 N**  
Inner Conductor **>245 N**

Plating  
Body Parts **Nitin-6**  
Inner Conductor **Nitin-6**

Torsional Strength (Connector / Cable) **>2,9 Nm**

Insulators **PP with Glass / COC (Topas)**

Test performed by **Søren B. Sørensen**  
Date of release **April 10, 2015**

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.*