



DATA SHEET

Connector for Copper Cable - Type: 1/2"

Part # 4.1/9.5M50V12

Description

Connectors with standard DIN 4.1/9.5 - interface for Corrugated Copper Cable (1/2")

Typical PIM-level: -163 dBc

Cable example: Eupen 5128 (EC4-50)



N/A

Connector Specifications

4.1/9.5 - Male

4.1/9.5 - Male - 90°

Electrical Specifications

Nominal impedance [Ω]		50	
Return loss @ 1 / 3 GHz [dB]	$\geq 45 / \geq 35$		N/A / N/A
Insulation resistance [$G\Omega$]		≥ 5	
Test Voltage (at sea level) [kV rms, 50Hz]		2.5	
Working Voltage (at sea level) [kV rms, 50Hz]		1	
Screening effectiveness @ 1 GHz [dB]		> 128	
Contact resistance (inner / outer contact) [$m\Omega$]		$\leq 1 / \leq 1$	
PIM level (minimum / typical) [dBc]		- 155 / - 163	

Mechanical Specifications

Torque of coupling mechanism [Nm]		≤ 20	
Strength of coupling mechanism [N]		> 600	
Cable retention [N]		> 750	
Mechanical endurance [coupling]		> 500	
Outer diameter (body) [mm]	22		N/A
Length (total) [mm]	52		N/A
Weight [g]	82		N/A

Environmental Specifications

Temperature range [$^{\circ}C$]		- 40 to + 85	
Degree of protection (humidity)		IP68 (0.5 bar - 24h) Air injection - mated	

Materials

External parts	Passivated silver plated or electroless nickel plated
Contact with Cable (IC / OC)	Passivated silver plated CuBe / Passivated silver plated brass
Dielectric	PTFE
Gaskets	High quality silicone

Cable dimensions

Inner conductor - IC [mm]	$4.75 \leq IC \leq 4.85$
Outer conductor - OC [mm]	$16.6 \leq OC \leq 14.0$
Jacket - J [mm]	$15.6 \leq J \leq 16.4$

Order Information

Order Code	C4195M12	N/A
Designation	4.1/9.5M 1/2	N/A
Recommended Tool	CSPTC50AV12E	N/A