

GEMnet Multi Gigabit Differential Connector System

Our USPs

- › Automated production line with process monitoring
- › Compliance with the smallest processing tolerances
- › Handling of various cable variants (UTP, STP, SPP)
- › Customer-specific solutions possible
- › Globally standardized machinery and processes



Your Advantages

- › High frequency range and high data rates
- › Less mating processes due to a modular package concept (standard connector with 1-, 2-, 4- and 6-way housings)

Technical Information

Electrical	
Return loss	≥ 20 dB, 0.01 GHz up to 4 GHz
Mechanical	
Polarization efficiency	≥ 80 N (depending on connector)
Engagement force	≤ 50 N (depending on connector)
Retention force latch	≥ 110 N
Mating cycles	≥ 25
Environmental	
Temperature range	-40 °C up to +105 °C (depending on cable)
Qualification	
according to DIN EN 60068-2	

Specification according to TE datasheet

Requirements

- › Combination of high-performance data transmission up to 15 GHz and up to 25 Gbps
- › A small and robust design

Applications

4K camera systems	Autonomous driving
4K high-resolution displays	Rear seat entertainment
Driver assistance system	

Protocols & Signals

HDBaseT	GVIF
FPD-Link	GMSL
APIX	PCIe
MIPI A-PHY	



Cable Assembler

with 50 years of experience



Flexible Volume Supplier

More than 180 million products in over 20,000 variants every year and more than 450 car models from over 90 OEMs



Automotive Supplier

for more than 30 years



Independent, integrated technology leader

with an in-house mechanical engineering department for production equipment



Leading Global Specialist

for data transmission solutions in vehicles



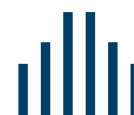
Globally Accredited Test Laboratories

as a quality factor for standard-compliant methodology and reliable evaluations



Over 5,000 employees

worldwide with a global manufacturing and distribution network



Foundation Company

with a clear focus on the sustainable preservation of the company, constant innovation and secure jobs