

Datasheet

Conversion of media broadcast van

- The previous used connector technology, based on ferrules, constantly led to problems when used in the harsh environment of media broadcast applications.
- The approach of Sachsenkabel included an exchange of the connection technology to Eurolens connectors and bulkheads. The beam expansion of the Eurolens system ensures toleration of dirt and vibrations.

Special challenges during the conversion

Field assembly in an extremely short time

Media broadcast vans are constantly in use. To keep the downtime to a minimum, the conversion has been performed in a very narrow time window. Due to the intense preparation and know-how of our experts, the time frame could be accurately maintained.

Unknown cable material

The cable material, used in the van, was unknown until the time of conversion. In examining it, we came to the result that the used material is not optimal for the Eurolens connector. However, through the years of experience this problem could be solved in the short term.

Technical Data Lens Connector Eurolens (HMA)

Manufacturer	Euromicron GmbH	
Features	Protection class IP67 (plugged in)	
	Suitable for use in harsh environment	
	Two or four fiber version available	
	Compatible to: MIL-DTL-83526/20 connectors MIL-DTL-83526/21 bulkheads	
Ferrule	None, expanded beam	
Mating cycles	3.000	
Body colour	Black (other on request)	
Cable diameter	4 to 6,5 mm	
Strain relief	≥ 1.500 N	
Temperature range	Operating temperature	-40°C to +85°C
	Storage temperature	-55°C to +85°C
Versions	Duplex, 4 fibers / multimode	
	Duplex, 4 fibers / singlemode	

Multimode

Fiber types	G62,5 / 125 µm (OM 1) G50 / 125 µm (OM 2, OM 3, OM 4)
Typical insertion loss	≤ 0,50 dB

Singlemode

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Media broadcast van in front of Sachsenkabel company building



Fiber optic and copper cabling in media broadcast vans

Fiber type	E9 / 125 µm (OS 2)
Typical insertion loss	≤ 1,50 dB
Return loss	≥ 30 dB