



## CU1561 | EtherCAT media converter plastic optical fibre

The EtherCAT-capable CU1561 for Industrial Fast Ethernet/100 Mbaud serves as media converter from POF (plastic optical fibre) to copper and vice versa. The CU1561 is suitable for POF cables, which are particularly easy to install in the field.

The CU1561 always operates bidirectionally and collision-free with constant delay. It can be diagnosed as a separate EtherCAT device. In this way, unlike standard media converters, the CU1561 enables fast link control and the safe closing of the EtherCAT strand even in the event of a fault. Since the transfer direction (copper to optical fibre | optical fibre to copper) is relevant for the bus, the device can be configured via a switch. Via this switch "Link Loss Forwarding" for normal Ethernet operation can also be selected.

The CU1561 is useful in applications where higher EMC loads on the bus line are to be expected or where simple assembly is required.

Technical data	CU1561
Task within EtherCAT system	media transition from RJ45 copper physics to POF and back
Data transfer medium	plastic optic fibre 980/1000 µm (POF); Ethernet/EtherCAT cable (min. CAT 5), shielded
Bus interface	1 x SC Duplex; 1 x RJ45
Distance between stations	max. 50 m (POF); max. 100 m (100BASE-TX)
Protocol	EtherCAT
Delay	approx. 1 µs
Data transfer rates	100 Mbaud
Configuration	per rotary switch
Power supply	24 (18...30) V DC, 3-pin connection (+, -, PE)
Dimensions (W x H x D)	34 x 98 x 77 (in mm)
Operating/storage temperature	0...+55 °C/-25...+85 °C
Relative humidity	95 %, no condensation
Vibration/shock resistance	conforms to EN 60068-2-6/EN 60068-2-27
EMC immunity/emission	conforms to EN 61000-6-2/EN 61000-6-4
Protect. class/installation pos.	IP 20/variable
Approvals	CE, UL

Further POF products	
<b>EK1541</b>	EtherCAT Coupler with ID switch, POF for E-bus terminals (ELxxxx)
<b>EK1561</b>	1-port EtherCAT POF junction

Accessories	
<b>EtherCAT POF</b>	POF cordsets and connectors for EtherCAT