



■ Automation Solutions

# Ethernet Connectivity

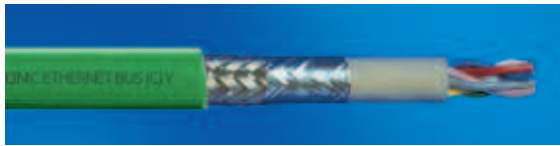
Infrastructure solutions from a single source

# LÜTZE Ethernet Connectivity • Cables

## Cables

## Category

## Item



**Cat. 5e**

Art. no.	Description
104335	ELECTRONIC Ethernet BUS (C) Y Jacket PVC, 4x2xAWG 26/7, StC
104327	ELECTRONIC Ethernet BUS (C) PUR Jacket PUR 4x2xAWG 26/7, StC
104326	SUPERFLEX® Ethernet BUS (C) PUR Jacket PUR 4x2xAWG 26/19, StC <b>Suitable for cable carriers!</b>
104336	ELECTRONIC Ethernet BUS (C) Y Jacket PVC, 4x2xAWG 24/7, StC
104337	SUPERFLEX® Ethernet BUS (C) PUR Jacket PUR, 4x2xAWG 24/19, StC <b>Suitable for cable carriers!</b>



**Cat. 6**

104338	ELECTRONIC Ethernet BUS (C) PVC Jacket PVC, 4x2xAWG 26/7, StC
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**Cat. 7**

104339	ELECTRONIC Ethernet BUS (C) PUR Jacket PUR, 4x2xAWG 26/7, StC
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**POF**  
**Glass fibre**

	In preparation
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	In preparation
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### Industrial Ethernet

In the last few years there has been a very clear trend towards the use of Industrial Ethernet as a communication platform. Standards and seamless technology are the guarantees of greater efficiency and security of investment in all branches of industry. Successful use is based on an integrated installation solution consisting of Ethernet cabling and Ethernet network components.

**As a solution specialist, LÜTZE offers you this seamlessness throughout the environment.**

### Cables – a lot depends on them

Procurement, logistics and production all need to be managed. The quality of the cables - whether copper, glass fibre or polymer fibre - has to stand up to whatever the machine requires.

### And just how to achieve an optimal cabling design?

The solution is clear: Delegate, and benefit from LÜTZE's expertise.

Whether standard or special applications, cable carriers or torsionable: We supply custom-tailored solutions for your applications.

That way you have more time for what really counts!

# LÜTZE Ethernet Connectivity • Connection Technology

Connection technology	Category	Item																								
	<b>Cat. 5e</b>	<table border="1"> <thead> <tr> <th>Art. no.</th> <th>Description</th> <th>Art. no.</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>772100</td> <td>Industrial connector RJ45 IP 20, 8-pole, Cat.5e</td> <td>772103</td> <td>Industrial connector RJ45 IP 20, 8-pole, Cat.6</td> </tr> <tr> <td>772101</td> <td>Industrial connector RJ45 IP 20, 4-pole, Cat.5e, Profinet</td> <td>772121</td> <td>Industrial connector RJ45 IP 67, 8-pole, Cat.6, Form V6</td> </tr> <tr> <td>772120</td> <td>Industrial connector RJ45 IP 67, 8-pole, Cat.5e, Form V6</td> <td>772110</td> <td>Industrial connector RJ45 IP 67, 8-pole, Cat.6, Form V1</td> </tr> <tr> <td>772130</td> <td>Industrial connector RJ45 IP 67, 8-pole, Cat.5e, Form V14</td> <td>772132</td> <td>Industrial connector RJ45 IP 67, 8-pole, Cat.6, Form V14</td> </tr> <tr> <td>772131</td> <td>Industrial connector RJ45 IP 67, 4-pole, Cat.5e, V14, Profinet</td> <td></td> <td></td> </tr> </tbody> </table>	Art. no.	Description	Art. no.	Description	772100	Industrial connector RJ45 IP 20, 8-pole, Cat.5e	772103	Industrial connector RJ45 IP 20, 8-pole, Cat.6	772101	Industrial connector RJ45 IP 20, 4-pole, Cat.5e, Profinet	772121	Industrial connector RJ45 IP 67, 8-pole, Cat.6, Form V6	772120	Industrial connector RJ45 IP 67, 8-pole, Cat.5e, Form V6	772110	Industrial connector RJ45 IP 67, 8-pole, Cat.6, Form V1	772130	Industrial connector RJ45 IP 67, 8-pole, Cat.5e, Form V14	772132	Industrial connector RJ45 IP 67, 8-pole, Cat.6, Form V14	772131	Industrial connector RJ45 IP 67, 4-pole, Cat.5e, V14, Profinet		
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	<b>Cat. 6</b>																									
	<b>Cat. 5e Cat. 6</b>	100% compatible according to IEC 60603-7. 1:1 and Crossover wiring and C-Track cable with PUR jacket																								
	<b>Fibre-optic SC</b>	<p>Only available with assembled cables</p> <p>Connector variants: V1, V6, V14 with SC connection</p>																								
	<b>Outlets</b>	<table border="1"> <tbody> <tr> <td>772104</td> <td>Module carrier RJ45 for TS35 IP 20, 8-pole, Cat.5</td> </tr> <tr> <td>772106</td> <td>Module carrier SC for TS35 IP 20</td> </tr> </tbody> </table>	772104	Module carrier RJ45 for TS35 IP 20, 8-pole, Cat.5	772106	Module carrier SC for TS35 IP 20																				
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	<b>Wall Bushings</b>	<table border="1"> <tbody> <tr> <td>680500</td> <td>Patch box 2 x RJ45 for TS35, IP 20, 8-pole, Cat.5</td> </tr> <tr> <td>680501</td> <td>Patch panel 4 x RJ45 for TS35, IP 20, 8-pole, Cat.5</td> </tr> </tbody> </table>	680500	Patch box 2 x RJ45 for TS35, IP 20, 8-pole, Cat.5	680501	Patch panel 4 x RJ45 for TS35, IP 20, 8-pole, Cat.5																				
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## Connection technology – simply reliable and results-oriented

The reliable, fast transmission of signals requires reliable connection technology. Take advantage of our comprehensive portfolio of connectors, outlets and wall bushings up to Category 6. And of course the connectors conform to IEC 61076-3-106. What is more, the connectors of variants 4 and 14 (Profinet) and variant 1 (Ethernet IP) listed in this standard are also specified in the standards for

generic cabling of industrial buildings ISO/IEC 24702, IEC 61918 (Automation Island) and IEC 61784-5.

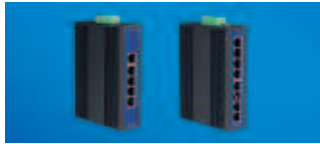
All connectors facilitate quick and easy assembly. If assembling the cables yourself is a problem for you, you can save time, costs and stress: **LÜTZE will solve your assembly problems inexpensively and quickly.**

# LÜTZE Ethernet Connectivity • Connection Technology

## Communication

## Function

## Item



### Unmanaged Switches



Art. no.	Description	Art. no.	Description
772000	5port 10/100 Mbit -10°C/+60°C	772001	5port 10/100 Mbit -25°C/+75°C
772002	8port 10/100 Mbit -10°C/+60°C	772003	8port 10/100 Mbit -25°C/+75°C
772010	5port 10/100/1000 Mbit -10°C/+60°C	772011	5port 10/100/1000 Mbit -25°C/+75°C
772012	8port 10/100/1000 Mbit -10°C/+60°C		
772014	16 + 2G port 10/100/1000 Mbit -10°C/+60°C		
772005	4ports RJ45 + 1/2FX 10/100 Mbit, -10°C/+60°C multi mode	772007	4ports RJ45 + 1/2FX 10/100 Mbit, -10°C/+60°C single mode

### Power over Ethernet

772020	PoE 5port 10/100 Mbit -10°C/+60°C, 48 V	772021	PoE 5port 10/100 Mbit -10°C/+60°C, 24/48 V
772022	PoE splitter -40°C/+75°C, 48 V		

### Media Converter

772030	1 Gbit RJ45, 1 Gbit SC -10°C/+60°C, multi mode	772031	1 Gbit RJ45, 1 Gbit SC -10°C/+60°C, single mode
772032	100 Mbit RJ45, 100 Mbit SC -10°C/+60°C, multi mode	772033	100 Mbit RJ45, 100 Mbit SC -10°C/+60°C, single mode

### Lütze ET Series - Reliable transmission even with Giga Power

The Lütze ET Series switches and media converters enables you to set up plug & play network structures in an industrial environment. No configuration is necessary, and thanks to the MDI/MDI-X functionality uncrossed cables can also be used between the switch and end device. Because industrial areas are synonymous with harsh environments, all of our systems feature aluminium housings, expanded temperature ranges from -25°C / +75°C and fibre-optic transmission.

### Additional features include:

- Transfer rates of up to 1 Gbit/s
- Complies with IEEE 802.3 and 802.3u
- Broadcast storm protection
- Auto negotiation, Auto Crossing, Auto Polarity
- Redundant infeed
- Wide range supply
- Full / half duplex data flow monitoring
- PoE variants

# LÜTZE Ethernet Connectivity

## Connectors / patch cables

	Art. no.	Description
Cat. 5e	IP20 192000.xxxx	Patch cable RJ45 male / male Cat.5e 8pole 0.5m - 30m
	IP20 772100	Industrial connector RJ 45 Cat.5e 8pole
	IP20 772101	Industrial connector RJ 45 Cat. 5e 4pole Profinet
	IP20 772104	Module carrier RJ45 for TS35 female / IDC Cat5e 8pole
	IP20 680500	Patch box 2x RJ45 female for TS35 Cat.5 8pole
	IP20 680501	Patch panel 4xRJ45 for TS35 Cat.5 8pole
	IP65 492075	Panel connector RJ45 female / female M22.5 Cat.5e 8pole
	IP67 490105	Wall bushing 90° M12/RJ45 Cat.5 D-coded 4pole Profinet
	IP67 490106	Wall bushing 180° M12/RJ45 Cat5 D-coded 4pole Profinet
	IP67 490107	Wall bushing 90° M12/RJ45 Cat.5 A-coded 8pole
	IP67 490108	Wall bushing 180° M12/RJ45 Cat.5 A-coded 8pole
	IP67 4750xx	M12 Ethernet cable male 5pole D-coded
	IP67 4752xx	M12 Ethernet cable male/male 5 pole d-coded
	IP67 49008x	M12 panel connector female 5pole D-coded 0.5m -5m
Cat. 6	IP67 772120	Industrial connector RJ45 Cat.5e 8pole Form V6
	IP67 772122	Wall bushing RJ45 female / IDC Cat.5e 8pole Form V6
	IP67 772124	Wall bushing RJ45 female / female Cat.5e 8pole Form V6
	IP67 772130	Industrial connector RJ 45 Cat.5e 8pole Form V14
	IP67 772131	Industrial connector RJ45 Cat.5e 8pole Form V14 Profinet
	IP67 772133	Wall bushing RJ45 female / female Cat.5e 8pole Form V14
	IP67 772134	Wall bushing RJ45 female / female Cat.5e 8pole Form V14 Profinet
	IP20 722102	RJ 45 male without tools Cat. 6 8pole
	IP20 772105	Module carrier RJ45 for TS35 female / IDC Cat6 8pole
	IP65 491075	Panel connector RJ45 female / female M22.5 Cat.6 8pole
	IP67 772110	Industrial connector RJ45 Cat.6 8pole Form V1
	IP67 772111	Wall bushing RJ45 female / IDC Cat.6 8pole Form V1
	IP67 772121	Industrial connector RJ45 Cat.5e 8pole Form V6
	IP67 772123	Wall bushing RJ45 female / IDC Cat.6 8pole Form V6
IP67 772132	Industrial connector RJ 45 Cat.6 8pole Form V14	
IP67 772135	Wall bushing RJ45 female / female Cat.6 8pole Form	
Fibre-optic	IP20 772106	Module carrier RJ45 for TS35 fibre-optic SC
	IP20 772140.xxxx	Patch cable fibre-optic 2x POF SC 0.5m- 100m
	IP20 772141.xxxx	Patch cable fibre-optic 2x glass SC 1.0m- 100m
	IP67 772113.xxxx	Patch cable fibre-optic POF 2x SC 0.5m - 100m Form V1
	IP67 772114.xxxx	Patch cable fibre-optic glass (MM) 2x SC 0.5m - 100m Form V1
	IP67 772115	Wall bushing fibre-optic Form V1
	IP67 772125.xxxx	Patch cable fibre-optic POF 2x SC 0.5m - 100m Form V6
	IP67 772126.xxxx	Patch cable fibre-optic glass (MM) 2x SC 0.5m - 100m Form V6
	IP67 772127	Wall bushing fibre-optic Form V6
	IP67 772136.xxxx	Patch cable fibre-optic POF 2x SC 0.5m - 100m Form V14
	IP67 772137	Wall bushing fibre-optic Form V14

## Twisted pair cables

Cat. 5	104241	PUR cable, highly flexible, shielded (2x2xAWG24/19) StC
	104245	PUR cable, highly flexible, shielded (2x2xAWG24/19) StC
	104246	PUR cable, highly flexible, shielded (4x2xAWG24/19) StC
	104303	PUR cable, highly flexible, shielded (2x2xAWG22/7) StC
	104318	PUR cable, flexible, shielded (2x2xAWG26/19) StC
	104319	PUR cable, flexible, shielded (4x2xAWG26/19) StC
	104247	PUR cable, flexible, shielded (2x2xAWG24/7) StC
Cat. 5e	104301	PVC cable, flexible, shielded (2x2xAWG22/1) StC
	104307	PVC cable, flexible, shielded (2x2xAWG22/7) StC
	104335	PVC cable, flexible, shielded (4x2xAWG26/7) StC
	104327	PUR cable, flexible, shielded (4x2xAWG 26/7) StC
	104326	PUR cable, highly flexible, shielded (4x2xAWG 26/19) C
Cat. 6	104336	PVC cable, flexible, shielded (4x2xAWG24/7) StC
	104337	PUR cable, highly flexible, shielded (4x2xAWG 24/19) C
	104338	PVC cable, flexible, shielded (4x (2xAWG 26/7) St) C
7	104339	PUR cable, flexible, shielded (4x (2xAWG 26/7) St) C

## Switches

	Art. no.	Description
10/100 Mbit/s	772000	5 port 10/100 Mbit -10°/+60°C
	772001	5 port 10/100 Mbit -25°/+75°C
	772002	8 port 10/100 Mbit -10°/+60°C
	772003	8 port 10/100 Mbit -25°/+75°C
	772005	4 ports RJ45 + 1/2FX 10/100 Mbit -10°/+60°C multi mode
	772007	4 ports RJ45 + 1/2FX 10/100 Mbit -10°/+60°C single mode
	772020	PoE 5 port 10/100 Mbit -10°/+60°C 48V
	772021	PoE 5 port 10/100 Mbit -10°/+60°C 24/48V
	772022	PoE splitter -40°/+75°C
	772032	100 Mbit RJ45, 100 Mbit SC -10°/+60°C multi mode
772033	100 Mbit RJ45, 100 Mbit SC -10°/+60°C single mode	
1 Gbit/s	772010	5 port 10/100/1000 Mbit -10/+60°C
	772011	5 port 10/100/1000 Mbit -25/+75°C
	772012	8 port 10/100/1000 Mbit -10/+60°C
	772014	16+ 2G port 10/100/1000 Mbit -10°/+60°C
	772030	1 Gbit RJ45, 1 Gbit SC -10°/+60°C multi mode
	772031	1 Gbit RJ45, 1 Gbit SC -10°/+60°C single mode

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