SPE

- Standard IEC 63171-6

- Up to 10 GBit/s

M8, M12 | 2-poles
- Single- and double-ended cordsets
- 360°-shielded
- Straight, angled

M12 Field-wireable
- 360°-shielded
- Crimp-technology
- Straight

- Good media- and temperature resistance

- IP65 | IP67 | IP68

- Protective caps, protective plugs, marking accessories, color rings

PROFIBUS

M12 | 5-poles, B-coded
- Single- and double-ended cordsets
- 360°-shielded
- Female, male | straight, angled

M12 Receptacles
- 360°-shielded
- Back- | Front wall mounting
- Wire connection, Print connection, Cable outlet
- Coding positionable (Front wall mounting)
- Female, male | straight, angled* (*Back wall mounting, Print connection)

M12 Field-wireable
- 360°-shielded
- Female, male | straight, angled
- Screw-/Clamp-connection

Y-Splitter | T-Splitter M12
- 360°-shielded
- Female - female - male

Termination connector
- M12 male, straight, 4-poles, B-coded

- Good media- and temperature resistance

- IP65 | IP67 | IP68

- UL-approved

- Protective caps, protective plugs, marking accessories, color rings

CANopen | DeviceNET

M12 | 5-poles, A-coded
- Single- and double-ended cordsets
- 360°-shielded and unshielded
- Female, male | straight, angled

M12 Receptacles
- Back- | Front wall mounting
- Wire connection
- Coding positionable (Front wall mounting)
- Female, male | straight

M12 Field-wireable
- 360°-shielded
- Female, male | straight, angled
- Screw-/Clamp-connection

T-Splitter M12
- Unshielded
- Female – female – male

Termination connector
- M12 male, female straight
- 120Ω resistor

- Good media- and temperature resistance

- IP65 | IP67 | IP68

- UL-approved

- Protective caps, protective plugs, marking accessories, color rings

INDUSTRIAL ETHERNET

Connectors
M8- | M12- | M12 push-pull

100 MBit/s
- Cat5e Cable
- Single- and double-ended cordsets
- 360°-shielded
- M12 + M12 push-pull: 4-poles, D-coded
- M8: 4-poles | 4-poles, D-coded | 4-poles, P-coded

10 GBit/s
- Cat6A- / Cat7 Cable
- Single- and double-ended cordsets
- 360°-shielded
- M12 + M12 push-pull: 8-poles, X-coded

Field-wireable
- Crimp connection, IDC-connection
- 360°-shielded
- **100 MBit/s:** M12, 4D
- **10 GBit/s:** M12, 8X

- 7 cable qualities PUR, 1 cable qualitiy PVC

- Good media- and temperature resistance

- IP65 | IP67 | IP68

- UL-approved

- Protective caps, protective plugs, marking accessories, color rings

Connectors
RJ45

100 MBit/s
- Cat5e-Cable
- Single- and double-ended cordsets
- Shielded
- Nale, straight, angled, light design

10 GBit/s
- Cat6A-Cable
- Single- and double-ended cordsets
- 360°-shielded
- Male, straight

Field-wireable
- IDC-connection
- 360°-shielded
- **100 MBit/s:** 4-poles
- **10 GBit/s:** 8-poles

Patchcords
- T568B, Crossover
- 2 Cat5e-Cable: PUR in 6 colors or drag chain suitable (GN)
- Cat7-Cable: FRNC in 6 colors

- IP20

- Good media- and temperature resistance

- UL-approved

- Locking/unlocking clips in 10 colors for marking

Receptacles
M8- | M12- | M12 push-pull

100 MBit/s
- M12 + M12 push-pull: 4-poles, D-coded
- M8: 4-poles, D-coded | P-coded
- Back- | Front wall mounting
- Wire connection, Print connection, Cable outlet (M12 + M12 push-pull)
- Coding positionable (Front-wall mounting)
- 360°-shielded (Print-, cable outlet)
- Female, male | straight, angled* (*Back wall mounting, Print connection, Cable outlet)

10 GBit/s
- M12 + M12 push-pull: 8-poles, X-coded
- 360°-shielded
- Print connection, cable outlet

- Good media- and temperature resistance

- IP65 | IP67 | IP68

- UL-approved

- Protective caps, protective plugs, separate counter nuts

Industrial connectors for DATA TRANSMISSION

.ESCHA

ESCHA

INDUSTRIAL ETHERNET · EtherCAT · Receptacles · SPE — Product Selection Matrix

Coding: male | female ↓ · Cable qualities ↘ | Available polarities ↘ · ✓ Cable qualities · ↓ Coding: male | female

Pin codings shown:
- M8, 4-poles D-coded / M8, 4-poles P-coded
- RJ45 / M8, 4-poles
- M12, 4-poles D-coded / M12, 5-poles B-coded / M12, 5-poles A-coded
- M12, 8-poles X-coded
- SPE, 2-poles male M8 | M12

Column key (cable types):

Code	Description
S2171	Cat5e PUR | PROFINET type C 1x4xAWG22/7 | s. for drag chain appl. | UL | GN
S3400	Cat5e PUR 1x4xAWG26 | s. for drag chain appl. | UL | GN
S5100	Cat5e PUR | PROFINET robotic AWG22/19 type R | UL | GN
S5200	Cat5e PVC | PROFINET 1x4xAWG22 | UL | GN
S3500	Cat7 PUR 4x2xAWG26 | UL | GN
S4030	Cat7 PUR | PROFINET type C 4x2xAWG24 | suitable for torsion | UL | GN
S4031	Cat6 PUR | PROFINET type C 4x2xAWG26 | for drag chain appl. | UL | GN
S510	Cat5e PUR | Patchcord 4x2xAWG26/7 | GY, RD, YE, BU, GN, BK
S620	Cat7 FRNC | Patchcord 4x2xAWG27 | UL | GY, RD, YE, BU, GN, BK
IDC	Field-wireable | IDC-connections
Crimp	Field-wireable | Crimp-connections
Panel	Panel feed through
Adapt	Adapter
S1329	Cat5e PUR | EtherCAT 1x4xAWG26 | UL | YE
S5058	Cat5e PUR | EtherCAT P 1x4xAWG22 | BK/RD
S5059	Cat5e PUR | EtherCAT P 1x4xAWG24 | BK/RD
S1800	PROFIBUS PUR 1 x 2 x0,34 | s. for drag chain appl. | UL | VT
S2800	CANopen/DeviceNet PUR (2x0,25) + (2x0,34) s. for drag chain appl. | UL | GY
Screw	Field-wireable | Screw-/Clamp-connection
Term	Termination connectore
Split	Splitter
Print	Print connection
Wire	Wire connection
WireCP	Wire connection, coding positionable
SPEp	SPE PUR | 1x2xAWG22 | UL | GN
SPEfw	Field-wireable| Crimptechnology

Connectors

Design	Gender	Pol.	S2171	S3400	S5100	S5200	S3500	S4030	S4031	S510	S620	IDC	Crimp	Panel	Adapt	S1329	S5058	S5059	S1800	S2800	Screw	Term	Split	SPEp	SPEfw
M8	male	↑	4, 4D	4, 4D	4D	4D										4	4P	4P						2	
M8	male	→	4, 4D	4, 4D	4D	4D											4P	4P						2	
M8	female	↑	4, 4D	4, 4D	4D	4D											4P	4P							
M8	female	→	4, 4D	4, 4D	4D	4D											4P	4P							
M12	male	↑	4D	4D	4D	4D	8X	8X	8X			4D, 8X	4D			4D			5B	5A	5A, 5B	5A, 5B	5B: S-S-B	2	2
M12	male	→	4D	4D	4D	4D	8X												5B	5A	5A, 5B				2
M12	female	↑	4D	4D	4D	4D						8X		4D>RJ45 8X>RJ45	4D>4D 4D>8X 8X>8X				5B	5A	5A, 5B	5A	5A: B-B-S 5B: B-S-S		
M12	female	→	4D	4D	4D	4D								4D>RJ45 8X>RJ45					5B	5A	5A, 5B				
push-pull	male	↑	4D	4D	4D	4D	8X	8X	8X																
push-pull	male	→	4D	4D	4D	4D	8X																		
RJ45	male	↑	4	4	4	4	8					8				4									
RJ45	male	→		4																					
RJ45	male	light ↑		4																					

Receptacles

Design	Mounting	Gender	Pol.	S2171	S3400	S5100	S5200	S3500	S4030	S4031	S1800	Print	Wire	WireCP
M8	Back wall	male	↑									4D, 4P		
M8	Back wall	male	→									4D, 4P		
M8	Back wall	female	↑									4D, 4P		
M8	Back wall	female	→									4D, 4P		
M12	Back wall	male	↑									4D, 5B	4D, 5A, 5B	
M12	Back wall	male	→									5B		
M12	Back wall	female	↑	4D	4D	4D	4D	8X	8X	8X	5B	4D, 5B, 8X	4D, 5A, 5B	
M12	Back wall	female	→	4D		4D	4D				5B	4D, 5B, 8X		
M12	Front wall	male	↑									4D, 5B	4D, 5A, 5B	
M12	Front wall	female	↑	4D		4D					5B	5B, 8X	4D, 5A, 5B	4D, 5B
M12 push-Pull	Back wall	male	↑									4D	4D, 5A	
M12 push-Pull	Back wall	female	↑	4D	4D	4D	4D	8X	8X	8X		4D, 8X	4D	
M12 push-Pull	Back wall	female	→	4D		4D	4D					4D, 8X		
M12 push-Pull	Front wall	male	↑									4D	4D, 5A	
M12 push-Pull	Front wall	female	↑	4D		4D						8X	4D, 5A	4D

Patchcords

Design	Gender	Pol.	S3400	S510	S620
RJ45	male	↑↑		T568B	T568B
RJ45	male	↑↑			crossover
RJ45	male	↑→	industrial		