

9.14.1.1 Technical data

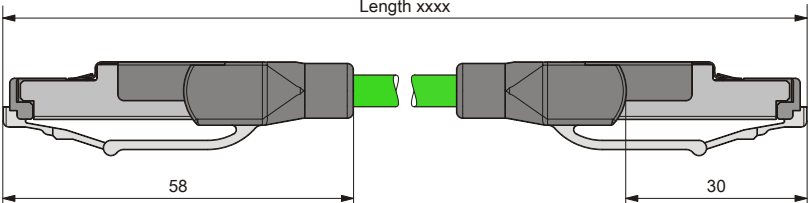
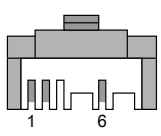
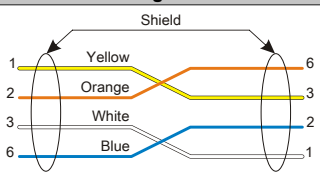
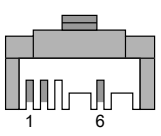
Order number	X20CA0E61.xxxxx	X20CA0E61.xxxx	X20CA3E61.xxxx	X67CA0E41.xxxx	X67CA3E41.xxxx
Short description					
Accessories	POWERLINK/Ethernet connection cable RJ45 to RJ45		POWERLINK/Ethernet connection cable RJ45 to RJ45, can be used in cable drag chains	POWERLINK/Ethernet connection cable, RJ45 to M12, 4-pin, straight	POWERLINK/Ethernet connection cable, RJ45 to M12, can be used in cable drag chains, 4-pin, straight
General information					
Durability	Flame-retardant per IEC 60332-3-24 ROHS 2011/65/EU	Flame-retardant per IEC 60332-1-2 ROHS 2011/65/EU			
Type	Connection cables				
Cable cross section					
AWG	4x 2x 26 AWG	4x 22 AWG			
mm²	4x 2x 0.14 mm²	4x 0.34 mm²			
Cable construction					
Inner jacket	Halogen-free, flame-retardant				
Outer jacket					
Material	PVC	Polyurethane (PUR) GN			
Properties	-	Halogen-free			
Color	Black (RAL 9005)	Green			
Wires					
Wire insulation	Polyethylene (PE)				
Wire colors	Blue-white, blue, orange-white, orange, green-white, green, brown-white, brown	White, yellow, blue, orange			
Shield	Overlapping aluminum-clad foil, tinned copper braiding, 85% coverage				
Type	Tinned copper strand 26/7 AWG	Tinned copper strand 22/7 AWG			
Stranding	Pair stranding - 4 pairs Blue-white with blue, orange-white with orange, green-white with green, brown-white with brown	Complete stranding 4 wires to the star quad			
Electrical properties					
Operating voltage	Max. 125 V	Max. 60 V for PoE			
Test voltage					
Wire - Wire	1000 V	2000 V			
Wire - Shield	1000 V	2000 V			
Conductor resistance	≤145 Ω/km at 20°C	≤120 Ω/km at 20°C			
Transfer properties	Category 5 per EN 50288-2-2 (2004) / IEC 61156-6 (2002)	Category 5 / Class D up to 100 MHz per ISO/IEC 11801 (EN 50173-1), ISO/IEC 24702 (EN 50173-3)			
Transfer rate	10/100/1000 Mbit/s	10/100 Mbit/s			
Insulation resistance	≥5 GΩ/km at 20°C	≥500 MΩ/km at 20°C			
Operating conditions					
Degree of protection per EN 60529					
Cables		IP65		IP67	
Male M12 connector	-	-		IP67, only when screwed in	
RJ45 connector	IP20, only when properly connected				
Ambient conditions					
Temperature					
Transport	-40 to 80°C	-50 to 70°C			
Fixed installation	-40 to 80°C	-40 to 70°C			
Flexible installation	-10 to 60°C	-20 to 60°C			
Mechanical properties					
Dimensions					
Diameter	6.7 mm ±0.2 mm	6.5 mm ±0.2 mm			
Bend radius					
Fixed installation	≥4x outer diameter	≥3x outer diameter			
Flexible installation	≥8x outer diameter	≥7x outer diameter			
Drag chain data					
Acceleration	-	-	4 m/s²	-	4 m/s²
Flex cycles	-	-	Min. 3 million	-	Min. 3 million
Velocity	-	-	4 m/s	-	4 m/s
Bend radius	-	-	200 mm	-	200 mm
Weight	0.058 kg/m	0.062 kg/m	0.061 kg/m	0.062 kg/m	0.064 kg/m

Table 23: X20CA0E61.xxxxx, X20CA0E61.xxxx, X20CA3E61.xxxx, X67CA0E41.xxxx, X67CA3E41.xxxx - Technical data

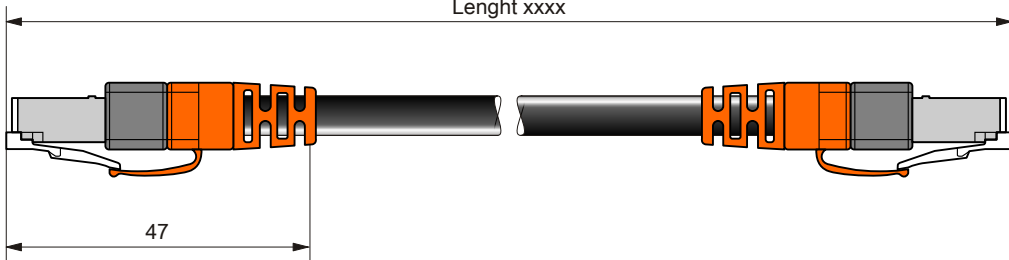
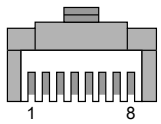
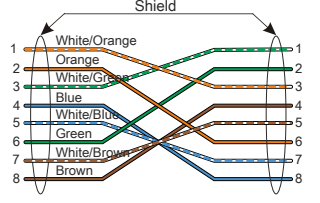
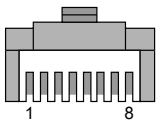
9.14.1.2 X20CA0E61.xxxx and X20CA3E61.xxxx

This cable is offered in 2 variants:

- X20CA0E61: Standard design
- X20CA3E61: Can be used in cable drag chains

Dimensions				
				
Pinout				
RJ45 connector	Pin	Name	Diagram	RJ45 connector
	1 - 3	TXD		
	2 - 6	TXD\		
	3 - 1	RXD		
	6 - 2	RXD\		

9.14.1.3 X20CA0E61.xxxxx

Dimensions				
				
Pinout				
Male RJ45 connector	Pin	Name	Diagram	Male RJ45 connector
	1 - 3	TXD		
	2 - 6	TXD\		
	4 - 8	RXD		
	6 - 2	RXD\		