



X67 POWERLINK/Ethernet cables

1 General

Length	Short description, order number	
	Attachment cables - RJ45 to M12	Connection cables - M12 to M12
1 m	X67CA0E41.0010	X67CA0E61.0010
2 m	X67CA0E41.0020	X67CA0E61.0020
3 m	X67CA0E41.0030	
5 m	X67CA0E41.0050	X67CA0E61.0050
10 m		X67CA0E61.0100
15 m	X67CA0E41.0150 X67CA3E41.0150	X67CA0E61.0150
20 m		X67CA0E61.0200
50 m	X67CA0E41.0500	
		
Length	Tolerances for cable lengths	
0 to <10 m	+10 cm	
10 m to <50 m	+2% of the length	

2 Technical data

Model number	X67CA0E41.xxxx	X67CA0E61.xxxx	X67CA3E41.xxxx
Short description			
Accessories	POWERLINK/Ethernet connection cable, RJ45 to M12, 4-pin, straight	POWERLINK/Ethernet connection cable, M12, 4-pin, straight	POWERLINK/Ethernet connection cable, RJ45 to M12, 4-pin, straight
General information			
Note	Halogen-free		
Durability	Flame-retardant per IEC 60332-1-2		
Type	Connection cables		
Cable cross section			
AWG	4x 22 AWG		
mm ²	4x 0.34 mm ²		
Cable construction			
Cable shield	Overlapping aluminum-clad foil, tinned copper braiding, 85% coverage		
Outer jacket			
Material	Polyurethane (PUR)		
Color	Green		
Wires			
Wire insulation	Polyethylene (PE)		
Wire colors	White, yellow, blue, orange		
Type	Tinned copper stranded wire Fine stranded wire (7x 0.25 mm / 7x 30 AWG)		
Stranding	4-wire twisted pair		
Electrical properties			
Conductor resistance	≤120 Ω/km at 20°C		
Transfer properties	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 Mbit/s		
Insulation resistance	≥500 MΩ/km at 20°C		
Operating conditions			
Degree of protection per EN 60529			
Cables	IP67		
Male M12 connector	IP67, only when screwed in		
RJ45 connector	IP20, only when properly connected		
Ambient conditions			
Temperature			
Transport	-40 to 70°C		
Fixed installation	-25 to 60°C		
Flexible installation	-20 to 60°C		
Mechanical properties			
Dimensions			
Diameter	6.5 mm ±0.2 mm		
Bend radius			
After installation	≥7x outer diameter		
During installation	≥3x outer diameter		
Drag chain data			
Acceleration	-		4 m/s ²
Flex cycles	-		Min. 3 million
Velocity	-		4 m/s
Weight	0.064 kg/m	0.062 kg/m	0.064 kg/m

Table 1: X67CA0E41.xxxx, X67CA0E61.xxxx, X67CA3E41.xxxx - Technical data

3 X67CA0E41.xxxx and X67CA3E41.xxxx

This cable is offered in 2 variants:

- X67CA0Exx: Standard variant
- X67CA3Exx: Can be used in cable drag chains

Dimensions				
Length xxxx				
Pinout				
Male RJ45 connector	Pin	Name	Diagram	M12 connector
	1 - 1	TXD		 D-coded
	2 - 3	RXD		
	3 - 2	TXD\		
	6 - 4	RXD\		

4 X67CA0E61.xxxx

Dimensions				
Length xxxx				
Pinout				
Connector	Pin	Name	Diagram	Connector
 D-coded	1 - 2	TXD		 D-coded
	2 - 1	RXD		
	3 - 4	TXD\		
	4 - 3	RXD\		