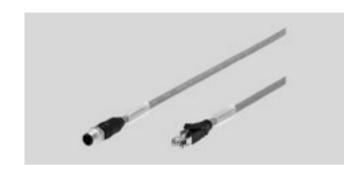
Connecting cables, Ethernet Technical data

FESTO

Connecting cable NEBC-D12G4

- Connecting cable M12 4-pin
- D-coded
- Cable lengths 0.5 ... 10 m
- Suitable for Ethernet



General technical data							
Cable characteristic		Suitable for use with e	nergy chains	Basic			
Electrical connection		Straight plug connector, 4-pin, M12x1, D-coded	Straight plug connector, RJ45, 8-pin	Open cable end, 4-wire	Straight plug connector, 4-pin, M12x1, D-coded	Straight plug connector, RJ45, 8-pin	
Conforms to standard		EN 61076-2-101	IEC 60603-7-3	-	-		
Ethernet cable specification		Type: CAT5		Type: CAT5			
Transmission characteristics	1	In accordance with category 5, EN 50173, class D			-		
		In accordance with category 5, ISO/IEC 11801, class D			-		
Operating voltage range	[V DC]	0 30	0 30	0 30	0 50		
	[V AC]	-	-	0 30	-		
Surge resistance	[kV]	0.8	0.8	0.8	0.8		
Acceptable current load at 40 °C	[A]	4	1.76	4	1		
Cable composition		4 x 0.34 mm ²			4 x 0.14 mm ²		
Cable diameter [mm]		6.7			6.4 ±0.2 mm		
Nominal conductor cross [mm²] section		0.34			0.34		
Min. bending radius	Min. bending radius [mm]		100			100	
Wire ends		-	_	Cut off bluntly, sheath removed	-		
Cable characteristic		Suitable for use with e	nergy chains	Basic			
Cable test conditions		Bending strength: according to Festo standard			Bending strength: according to Festo standard		
		Test conditions on request			-		
		Energy chain: 2 million cycles, bending radius 100 mm			-		
Nominal tightening torque	[Nm]	0.5	-	-	-		
Degree of protection to EN 60	0529	IP65, IP67	IP20	-	IP67	IP20	

Materials						
Cable characteristic	Suitable for use wit	h energy chains	Basic	Basic		
	Plug connector	Plug connector RJ45 plug connector		Plug connector RJ45 plug conn		
	M12x1			M12x1		
Housing	TPE-U (PUR)	PA	PA	-		
	-	Nickel-plated brass	Nickel-plated brass	-		
Housing colour	Black	Black	Black	-		
Threaded sleeve	Die-cast zinc	-	-	-		
Pin contact	Gold-plated brass	Gold-plated brass			Nickel-plated and gold-plated brass	
Cable sheath	TPE-U (PUR) ¹⁾	TPE-U (PUR) ¹⁾			TPE-U (PUR)	
Cable sheath colour	Green	Green			Blue	
Insulating sheath	PE	PE			-	
Note on materials	RoHS compliant	RoHS compliant			RoHS compliant	
	Free of copper and	PTFE	-			
Special characteristics	Oil-resistant	Oil-resistant			-	

¹⁾ The cable sheath contains esters of phosphoric acid. Under unfavourable conditions, tubing made from TPE-U (PU), such as PUN tubing, can be damaged in the event of common installation.

Connecting cables, Ethernet Technical data



Operating and environmental conditions						
Cable characteristic	Suitable for use with	Suitable for use with energy chains			Basic	
	Plug connector	RJ45 plug connector	Open cable end	Plug connector	RJ45 plug connector	
	M12x1			M12x1		
Ambient temperature [°C]	-25 +80			-		
Ambient temperature with [°C]	-20 +60	-20 +60			-20 +80	
flexible cable installation						
Degree of contamination	3	3			-	
Certification certificate	-	-	c UL us listed (OL)	-		

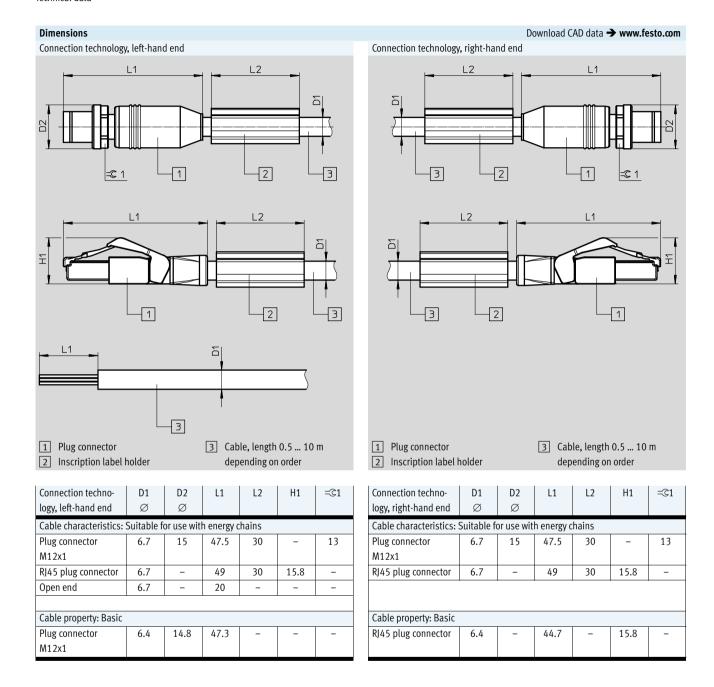
Wiring allocation (plug view)						
, , ,	Pin	Wire colour ¹⁾	Pin			
Electrical connection, plug connector, M12x1, 4-pin – plug connector, M12x1, 4-pin						
- 00 .	1	YE	1			
$2 \sqrt{+} + 1$	2	WH	2	$\frac{1}{2} + \frac{1}{2}$		
3 P+ +/ 4	3	OG	3	3 2+ +/4		
	4	BU	4			
Electrical connection, plug connector, N		·	1.			
2 + 1	1	YE	1	1		
· (+ +) ·	2	WH	3			
3 \(+ + \section 4 \)	3	OG	2			
	4	BU	6	∫ 8■		
	-	-	4			
	-	-	5			
	-	-	7	_		
	-	-	8			
Electrical connection, plug connector, N	112v1 /	oin onen cable and				
Liectifical conflection, plug conflector, in	1	YE	T_			
2 / + 1	2	WH	_	-		
- (; ;) .	3	OG	_	_		
3 \(+ + \) 4	4	BU	_	-		
	1.	1 23		1		
Electrical connection, plug connector, RJ45, 8-pin – plug connector, RJ45, 8-pin						
	1	YE	1			
¹ ≡	2	OG	2			
	3	WH	3	1		
5 8 ■	4	-	4	1		
	5	-	5]		
	6	BU	6]		
	7	-	7			
	8	-	8			

¹⁾ To IEC 757

Connecting cables, Ethernet

Technical data





Type discontinued Available up until 2019

Connecting cables, Ethernet Technical data



Ordering data									
Electrical connection 1	Electrical connection 2	Weight [g]	Cable length [m]	Part No.	Туре				
Cable characteristics: Suitable for use	Cable characteristics: Suitable for use with energy chains								
Straight plug connector, M12x1,	Straight plug connector, M12x1,	57	0.5	8040446	NEBC-D12G4-ES-0.5-S-D12G4-ET				
4-pin, D-coded	4-pin, D-coded	93	1	8040447	NEBC-D12G4-ES-1-S-D12G4-ET				
		223	3	8040448	NEBC-D12G4-ES-3-S-D12G4-ET				
		350	5	8040449	NEBC-D12G4-ES-5-S-D12G4-ET				
		679	10	8040450	NEBC-D12G4-ES-10-S-D12G4-ET				
	Straight plug connector, RJ45, 8-pin	89	1	8040451	NEBC-D12G4-ES-1-S-R3G4-ET				
		219	3	8040452	NEBC-D12G4-ES-3-S-R3G4-ET				
		347	5	8040453	NEBC-D12G4-ES-5-S-R3G4-ET				
		674	10	8040454	NEBC-D12G4-ES-10-S-R3G4-ET				
	Open end, 4-wire	341	5	8040456	NEBC-LE4-ES-5-D12G4-ET				
Straight plug connector, RJ45, 8-pin	Straight plug connector, RJ45, 8-pin	87	1	8040455	NEBC-R3G4-ES-1-S-R3G4-ET				
		•		•					
Cable property: Basic									
Straight plug connector, M12x1, 4-pin, D-coded	Straight plug connector, RJ45, 8-pin	157	3	8031121	NEBC-D12G4-KS-3-R3G4				

Ordering data – Accessories							
	Electrical connection 1	Electrical connection 2	Part No.	Туре			
Control cabinet th	rough-hole						
	Straight socket, 4-pin, M12x1, D-coded	Straight socket, 4-pin, M12x1, D-coded	8040459	NEFU-D12G4-D12DG4			
		Angled socket, 8-pin, RJ45	8040457	NEFU-D12G4-R3DW4			