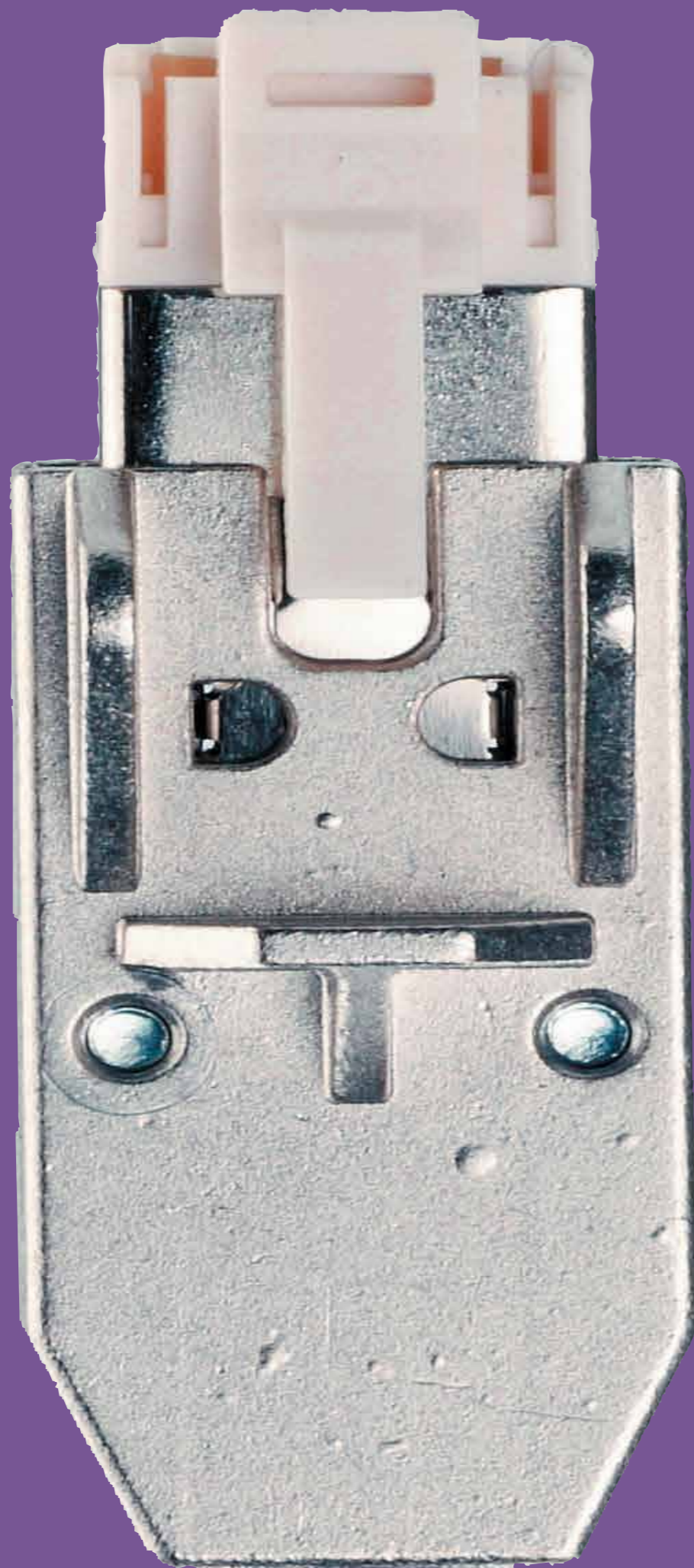










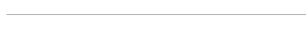








# Network

Network / Ethernet / Fieldbus



## chainflex® readycable®

Series	Jacket	Page
<b>Harnessed Ethernet cables</b>		
 CAT5 Straight	PVC/PUR/TPE	481
 SPE Single Pair Ethernet	PUR	481
 CAT5e Straight	PVC/PUR/TPE	482
 CAT5e Straight	PVC/PUR/TPE	485
 CAT5e Crossover	PVC/PUR/TPE	486
 CAT5e with 615 connectors	PVC/PUR/TPE	487
 CAT5e with angled connectors (L/T angle)	PVC/PUR/TPE	488
 CAT6 Straight	PVC/PUR/TPE	492
 CAT6 Straight/Crossover	TPE	494
 CAT6A with M12 connectors	PVC/PUR/TPE	495
 CAT7 Straight	PUR/TPE	497
 Industrial Ethernet moulded	PVC/PUR	498
<b>Harnessed Profibus cables</b>		
 Profibus	PVC/PUR/TPE	500
<b>Harnessed Profinet cables</b>		
 Profinet	PVC/PUR/TPE	506
 Industrial Profinet moulded	PVC/PUR	510
 Profinet with moulded connectors	PVC/PUR/TPE	512
<b>Harnessed DevicNet cable</b>		
 DeviceNet with Binder M12 a-coded	TPE	513 <b>New</b>



igus 36-month chainflex cable guarantee and service life calculator based on 2 billion test cycles per year



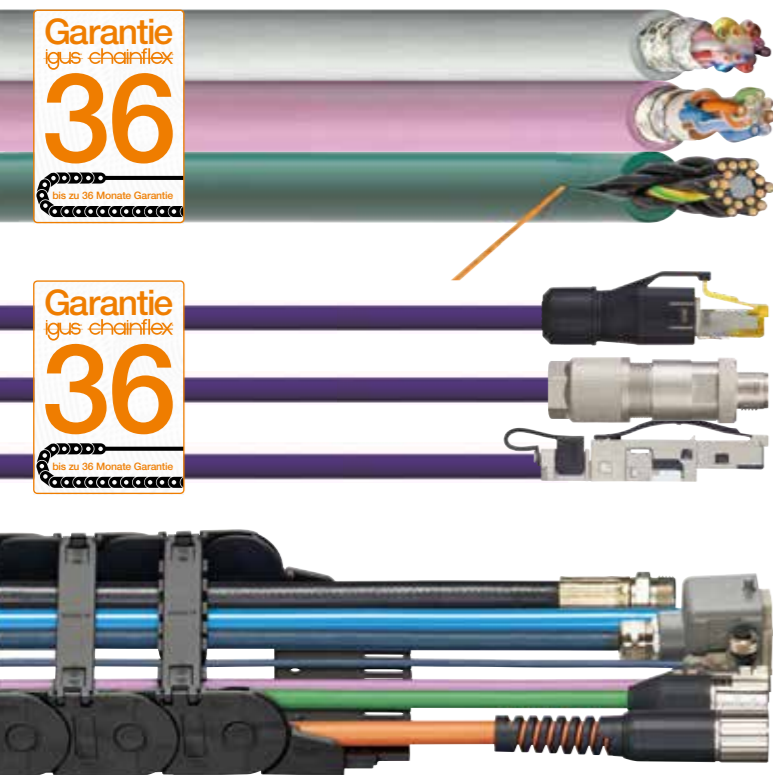
# chainflex® Ethernet cables | Overview

Electrical performance

CAT7 10GBit 600MHz	chainflex® CFBUS.PVC.052 Page 194	chainflex® CFBUS.PUR.052 Page 202	chainflex® CFBUS.052 Page 208	chainflex® CFROBOT8.052 Page 408					
CAT6A 10GBit 500MHz	chainflex® CFBUS.PVC.050 Page 194	chainflex® CFBUS.PUR.050 Page 202	chainflex® CFBUS.050 Page 208	chainflex® CFROBOT8.050 Page 408	chainflex® CFROBOT8. PLUS.050 Page 412				
CAT6 1GBit 250MHz	chainflex® CFBUS.PVC.049 Page 194	chainflex® CFBUS.PUR.049 Page 202	chainflex® CFBUS.049 Page 208	chainflex® CFBUS.LB.049 Page 212	chainflex® CFROBOT8.049 Page 408	chainflex® CFROBOT8. PLUS.049 Page 412	chainflex® CFSPECIAL. 484.049 Page 430		
CAT5e 1GBit 100MHz	chainflex® CF888.045 Page 190	chainflex® CFBUS.PVC.045 Page 194	chainflex® CF898.045 Page 198	chainflex® CFBUS.PUR.045 Page 202	chainflex® CFBUS.045 Page 208	chainflex® CFBUS.LB.045 Page 212	chainflex® CFROBOT8.045 Page 408	chainflex® CFROBOT8. PLUS.045 Page 412	CFSPECIAL. 182.045 p. 424 CFCLEAN8.045 Page 460
SPE 1GBit 600MHz			chainflex® CFBUS.PUR.042 Page 202						
Profinet 100MBit 100MHz	chainflex® CF888.060 Page 190	chainflex® CFBUS.PVC.060 Page 194	CF898.060 Page 198 CF898.061.FC Page 198	chainflex® CFBUS.PUR.060 Page 202	chainflex® CFBUS.060 Page 208	chainflex® CFBUS.LB.060 Page 212	chainflex® CFROBOT8.060 Page 408	chainflex® CFROBOT8. PLUS.060 Page 412	
CAT5 100MBit 100MHz	chainflex® CFBUS.PVC.040 Page 194		chainflex® CFBUS.PUR.040 Page 202	chainflex® CFBUS.040 Page 208	chainflex® CFBUS.LB.040 Page 212				

Mechanical performance

CF888 PVC 15 x d	CFBUS.PVC PVC, oil-resistant 12.5 x d	CF898 iguPUR 15 x d	CFBUS.PUR PUR 12.5 x d	CFBUS TPE UL 10 x d	CFBUS.LB TPE Hal 7.5 x d	CFROBOT8 PUR ± 180°/m	CFROBOT8.PLUS PUR ± 360°/m	Special cables
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- Highly flexible chainflex® cables**
- More than 1,350 cables from stock
  - Tested, and in seven jacket materials
  - No cutting charges, from 1m
  - 36-month or 10 million double stroke guarantee\*
  - Approvals and certificates
- Harnessed cables readycable®**
- More than 400 harnessed Ethernet cables
  - In seven jacket materials
  - 36-month or 10 million double stroke guarantee\*
  - Shipped in 24hrs\*\*
  - To your desired length, with centimetre accuracy
- harnessed e-chain® systems readychain®**
- Customised and ready-to-connect to your specifications
  - From the basic solution to complex systems
  - Optional assembly rack
  - From batch size 1 to series production
  - Installation service

\* Whichever is first. Up to 5 million double strokes for the highly affordable chainflex® M cables. The number of double strokes depends on installation and cable quality. This is described in the current catalogue, in the data sheets and in the service life calculator at [www.igus.eu/chainflexlife](http://www.igus.eu/chainflexlife).  
\*\* Means time until shipping of goods.

# Harnessed Ethernet cables | CAT5

\* Technical information on the cable quality:  
**PVC, oil-res.** Page 192  
**PUR** Page 200  
**TPE** Page 204

Harnessed Ethernet cables, CAT5, to your required length

Cable quality	Part No.	Number of cores and conductor nominal cross section [mm²]	Ø [mm]	Bend radius [x d]
<b>Harting RJ45 (CAT5)/ Harting RJ45 (CAT5)</b>				
PVC, oil-res.	CAT9311001	(4x0.25)C	6.5	12.5
PUR	CAT9411001	(4x0.25)C	6.5	12.5
TPE	CAT9511001	(4x0.25)C	7.0	10
<b>Harting Han3A RJ45 (CAT6)/ Harting Han3A RJ45 (CAT6)</b>				
PVC, oil-res.	CAT9311002	(4x0.25)C	6.5	12.5
PUR	CAT9411002	(4x0.25)C	6.5	12.5
TPE	CAT9511002	(4x0.25)C	7.0	10

Note: The given outer diameters are maximum values and may tend toward lower tolerance limits.  
 G = with green-yellow earth core X = without earth core  
 Harnessing RJ45 at both ends ▶ TIA56A  
 Harnessing one end RJ45/one end M12 x-coded ▶ TIA56B  
 igus® GmbH defines cable length as entire length including connectors or open harnessing. ▶ Page 961

# Harnessed Single Pair Ethernet cable | SPE

\* Technical information on the cable quality:  
**PUR**  
 Page 196

Harnessed Single Pair Ethernet (SPE) cable, to your required length

Cable quality	Part No.	Number of cores and conductor nominal cross section [mm²]	Ø [mm]	Bend radius [x d]
<b>Harting T1 Single Pair Ethernet Connector/ Harting T1 Single Pair Ethernet Connector</b>				
PUR	CAT9471001	(2x0.15)C	5.5	12.5

**SPE** Single Pair Ethernet is the infrastructure foundation that makes IIoT and Industry 4.0 possible. In order to promote Single Pair Ethernet technology for the rapidly growing IIoT market, igus is participating in the SPE Industrial Partner Networks with other established partners such as HARTING and TE Connectivity.

More information: [www.igus.eu/info/n20-single-pair-ethernet-spe](http://www.igus.eu/info/n20-single-pair-ethernet-spe)

## Harnessed Ethernet cables | CAT5e

\* Technical information on the cable quality:

<b>PVC</b> Page 188	<b>PVC, oil-res.</b> Page 192	<b>iguPUR</b> Page 196	<b>PUR</b> Page 200	<b>PUR-ROBOT</b> Page 410	<b>PUR-SPECIAL</b> Page 428	<b>TPE</b> Page 204
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### Harnessed Ethernet cables, CAT5e, to your required length

Cable quality	Part No.	Number of cores and conductor nominal cross section [mm <sup>2</sup> ]	Ø [mm]	Bend radius [x d]
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Telegärtner RJ45 (CAT6A)/  
Telegärtner RJ45 (CAT6A)



<b>PVC</b>	<b>CAT9121002</b>	(4x(2x0.14))C	7.0	15
<b>PVC, oil-res.</b>	<b>CAT9321002</b>	(4x(2x0.15))C	7.5	12.5
<b>iguPUR</b>	<b>CAT9221002</b>	(4x(2x0.14))C	7.0	15
<b>PUR</b>	<b>CAT9421002</b>	(4x(2x0.15))C	7.5	12.5
<b>PUR-ROBOT</b>	<b>CAT9621002</b>	4x(2x0.15)C	9.5	10
<b>PUR-SPECIAL</b>	<b>CAT9721001</b>	(4x(2x0.15))C	9.5	10
<b>TPE</b>	<b>CAT9521002</b>	(4x(2x0.15))C	8.5	10

Harting RJ45 (CAT6A)/  
Harting RJ45 (CAT6A)



<b>PVC</b>	<b>CAT9121003</b>	(4x(2x0.14))C	7.0	15
<b>PVC, oil-res.</b>	<b>CAT9321003</b>	(4x(2x0.15))C	7.5	12.5
<b>iguPUR</b>	<b>CAT9221003</b>	(4x(2x0.14))C	7.0	15
<b>PUR</b>	<b>CAT9421003</b>	(4x(2x0.15))C	7.5	12.5
<b>PUR-ROBOT</b>	<b>CAT9621003</b>	4x(2x0.15)C	9.5	10
<b>PUR-SPECIAL</b>	<b>CAT9721002</b>	(4x(2x0.15))C	9.5	10
<b>TPE</b>	<b>CAT9521003</b>	(4x(2x0.15))C	8.5	10

Telegärtner RJ45 (CAT6)/  
Telegärtner RJ45 (CAT6)



<b>PVC</b>	<b>CAT9121004</b>	(4x(2x0.14))C	7.0	15
<b>PVC, oil-res.</b>	<b>CAT9321004</b>	(4x(2x0.15))C	7.5	12.5
<b>iguPUR</b>	<b>CAT9221004</b>	(4x(2x0.14))C	7.0	15
<b>PUR</b>	<b>CAT9421004</b>	(4x(2x0.15))C	7.5	12.5
<b>PUR-ROBOT</b>	<b>CAT9621004</b>	4x(2x0.15)C	9.5	10
<b>PUR-SPECIAL</b>	<b>CAT9721003</b>	(4x(2x0.15))C	9.5	10
<b>TPE</b>	<b>CAT9521004</b>	(4x(2x0.15))C	8.5	10

**Note:** The given outer diameters are maximum values and may tend toward lower tolerance limits.

**G** = with green-yellow earth core **x** = without earth core

Harnessing **RJ45 at both ends** ▶ TIA56A

Harnessing **one end RJ45/one end M12 x-coded** ▶ TIA56B

igus® GmbH defines cable length as entire length including connectors or open harnessing. ▶ Page 961

## Harnessed Ethernet cables | CAT5e

\* Technical information on the cable quality:

<b>PVC</b> Page 188	<b>PVC, oil-res.</b> Page 192	<b>iguPUR</b> Page 196	<b>PUR</b> Page 200	<b>PUR-ROBOT</b> Page 410	<b>PUR-SPECIAL</b> Page 428	<b>TPE</b> Page 204
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### Harnessed Ethernet cables, CAT5e, to your required length

Cable quality	Part No.	Number of cores and conductor nominal cross section [mm <sup>2</sup> ]	Ø [mm]	Bend radius [x d]
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Telegärtner RJ45 (CAT6)/  
Telegärtner RJ45 angled (CAT6A)



<b>PVC</b>	<b>CAT9121005</b>	(4x(2x0.14))C	7.0	15
<b>PVC, oil-res.</b>	<b>CAT9321005</b>	(4x(2x0.15))C	7.5	12.5
<b>iguPUR</b>	<b>CAT9221005</b>	(4x(2x0.14))C	7.0	15
<b>PUR</b>	<b>CAT9421005</b>	(4x(2x0.15))C	7.5	12.5
<b>PUR-ROBOT</b>	<b>CAT9621005</b>	4x(2x0.15)C	9.5	10
<b>PUR-SPECIAL</b>	<b>CAT9721004</b>	(4x(2x0.15))C	9.5	10
<b>TPE</b>	<b>CAT9521005</b>	(4x(2x0.15))C	8.5	10

Telegärtner RJ45 (CAT6)/  
Telegärtner M12 x-coded (CAT6)



<b>PVC</b>	<b>CAT9121006</b>	(4x(2x0.14))C	7.0	15
<b>PVC, oil-res.</b>	<b>CAT9321006</b>	(4x(2x0.15))C	7.5	12.5
<b>iguPUR</b>	<b>CAT9221006</b>	(4x(2x0.14))C	7.0	15
<b>PUR</b>	<b>CAT9421006</b>	(4x(2x0.15))C	7.5	12.5
<b>PUR-ROBOT</b>	<b>CAT9621006</b>	4x(2x0.15)C	9.5	10
<b>PUR-SPECIAL</b>	<b>CAT9721005</b>	(4x(2x0.15))C	9.5	10
<b>TPE</b>	<b>CAT9521006</b>	(4x(2x0.15))C	8.5	10

Telegärtner M12 x-coded (CAT6A)/  
Telegärtner M12 x-coded (CAT6A)



<b>PVC</b>	<b>CAT9121007</b>	(4x(2x0.14))C	7.0	15
<b>PVC, oil-res.</b>	<b>CAT9321007</b>	(4x(2x0.15))C	7.5	12.5
<b>iguPUR</b>	<b>CAT9221007</b>	(4x(2x0.14))C	7.0	15
<b>PUR</b>	<b>CAT9421007</b>	(4x(2x0.15))C	7.5	12.5
<b>PUR-ROBOT</b>	<b>CAT9621007</b>	4x(2x0.15)C	9.5	10
<b>PUR-SPECIAL</b>	<b>CAT9721006</b>	(4x(2x0.15))C	9.5	10
<b>TPE</b>	<b>CAT9521007</b>	(4x(2x0.15))C	8.5	10

**Note:** The given outer diameters are maximum values and may tend toward lower tolerance limits.

**G** = with green-yellow earth core **x** = without earth core

Harnessing **RJ45 at both ends** ▶ TIA56A

Harnessing **one end RJ45/one end M12 x-coded** ▶ TIA56B

igus® GmbH defines cable length as entire length including connectors or open harnessing. ▶ Page 961

## Harnessed Ethernet cables | CAT5e

\* Technical information on the cable quality:

<b>PVC</b> Page 188	<b>PVC, oil-res.</b> Page 192	<b>iguPUR</b> Page 196	<b>PUR</b> Page 200	<b>PUR-ROBOT</b> Page 410	<b>PUR-SPECIAL</b> Page 428	<b>TPE</b> Page 204
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### Harnessed Ethernet cables, CAT5e, to your required length

Cable quality	Part No.	Number of cores and conductor nominal cross section [mm <sup>2</sup> ]	Ø [mm]	Bend radius [x d]
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Phoenix Contact RJ45 (CAT6A)/  
Phoenix Contact RJ45 (CAT6A)



<b>PVC</b>	<b>CAT9121010</b>	(4x(2x0.14))C	7.0	15
<b>PVC, oil-res.</b>	<b>CAT9321010</b>	(4x(2x0.15))C	7.5	12.5
<b>iguPUR</b>	<b>CAT9221010</b>	(4x(2x0.14))C	7.0	15
<b>PUR</b>	<b>CAT9421010</b>	(4x(2x0.15))C	7.5	12.5
<b>PUR-ROBOT</b>	<b>CAT9621010</b>	4x(2x0.15)C	9.5	10
<b>TPE</b>	<b>CAT9521010</b>	(4x(2x0.15))C	8.5	10

Phoenix Contact M12 x-coded (CAT6A)/  
Phoenix Contact M12 x-coded (CAT6A)



<b>PVC</b>	<b>CAT9121013</b>	(4x(2x0.14))C	7.0	15
<b>PVC, oil-res.</b>	<b>CAT9321013</b>	(4x(2x0.15))C	7.5	12.5
<b>iguPUR</b>	<b>CAT9221013</b>	(4x(2x0.14))C	7.0	15
<b>PUR</b>	<b>CAT9421013</b>	(4x(2x0.15))C	7.5	12.5
<b>PUR-ROBOT</b>	<b>CAT9621013</b>	4x(2x0.15)C	9.5	10
<b>PUR-SPECIAL</b>	<b>CAT9721011</b>	(4x(2x0.15))C	9.5	10
<b>TPE</b>	<b>CAT9521013</b>	(4x(2x0.15))C	8.5	10

Harting M12 x-coded Socket (CAT6A)/  
Harting M12 x-coded Pin (CAT6A)



<b>PVC</b>	<b>CAT9121014</b>	(4x(2x0.14))C	7.0	15
<b>PVC, oil-res.</b>	<b>CAT9321014</b>	(4x(2x0.15))C	7.5	12.5
<b>iguPUR</b>	<b>CAT9221014</b>	(4x(2x0.14))C	7.0	15
<b>PUR</b>	<b>CAT9421014</b>	(4x(2x0.15))C	7.5	12.5
<b>PUR-ROBOT</b>	<b>CAT9621014</b>	4x(2x0.15)C	9.5	10
<b>TPE</b>	<b>CAT9521014</b>	(4x(2x0.15))C	8.5	10

**Note:** The given outer diameters are maximum values and may tend toward lower tolerance limits.

**G** = with green-yellow earth core **x** = without earth core

Harnessing RJ45 at both ends ▶ TIA56A

Harnessing one end RJ45/one end M12 x-coded ▶ TIA56B

igus® GmbH defines cable length as entire length including connectors or open harnessing. ▶ Page 961

## Harnessed Ethernet cables | CAT5e

\* Technical information on the cable quality:

<b>PVC, oil-res.</b> Page 192	<b>PUR</b> Page 200	<b>PUR-ROBOT</b> Page 410	<b>TPE</b> Page 204
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### Harnessed Ethernet cables, CAT5e Straight, 4 and 8-pole, to your required length

Cable quality	Part No.	Number of cores and conductor nominal cross section [mm <sup>2</sup> ]	Ø [mm]	Bend radius [x d]
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Harting RJ45 (CAT5)/  
Harting RJ45 (CAT5)



<b>TPE</b>	<b>CAT9040001</b>	(4x0.25)C	7.0	10
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Harting RJ45 (CAT5e)/  
Harting RJ45 (CAT5e)



<b>PVC, oil-res.</b>	<b>CAT9340020</b>	(4x(2x0.15))C	7.5	12.5
<b>PUR</b>	<b>CAT9240020</b>	(4x(2x0.15))C	7.5	12.5
<b>PUR-ROBOT</b>	<b>CAT9440020</b>	4x(2x0.15)C	9.5	10
<b>TPE</b>	<b>CAT9040020</b>	(4x(2x0.15))C	8.5	10

Yamaichi RJ45 (CAT5)/  
Yamaichi RJ45 (CAT5)



<b>PVC, oil-res.</b>	<b>CAT9340060</b>	(4x(2x0.15))C	7.5	12.5
<b>PUR</b>	<b>CAT9240060</b>	(4x(2x0.15))C	7.5	12.5
<b>PUR-ROBOT</b>	<b>CAT9440060</b>	4x(2x0.15)C	9.5	10
<b>TPE</b>	<b>CAT9040060</b>	(4x(2x0.15))C	8.5	10

Phoenix Contact RJ45 (CAT5e)/  
Phoenix Contact RJ45 (CAT5e)



<b>PVC, oil-res.</b>	<b>CAT9340100</b>	(4x(2x0.15))C	7.5	12.5
<b>PUR</b>	<b>CAT9240100</b>	(4x(2x0.15))C	7.5	12.5
<b>PUR-ROBOT</b>	<b>CAT9440100</b>	4x(2x0.15)C	9.5	10
<b>TPE</b>	<b>CAT9040100</b>	(4x(2x0.15))C	8.5	10

Yamaichi RJ45 (CAT5) in Hummel M23 housing/  
Yamaichi RJ45 (CAT5) in Hummel M23 housing



<b>PVC, oil-res.</b>	<b>CAT9340140</b>	(4x(2x0.15))C	7.5	12.5
<b>PUR</b>	<b>CAT9240140</b>	(4x(2x0.15))C	7.5	12.5
<b>PUR-ROBOT</b>	<b>CAT9440140</b>	4x(2x0.15)C	9.5	10
<b>TPE</b>	<b>CAT9040140</b>	(4x(2x0.15))C	8.5	10

Yamaichi RJ45 (CAT5) in Hummel M23 housing/  
Yamaichi RJ45 (CAT5) in Hummel M23 coupling housing



<b>PVC, oil-res.</b>	<b>CAT9340180</b>	(4x(2x0.15))C	7.5	12.5
<b>PUR</b>	<b>CAT9240180</b>	(4x(2x0.15))C	7.5	12.5
<b>PUR-ROBOT</b>	<b>CAT9440180</b>	4x(2x0.15)C	9.5	10
<b>TPE</b>	<b>CAT9040180</b>	(4x(2x0.15))C	8.5	10

**Note:** The given outer diameters are maximum values and may tend toward lower tolerance limits.

**G** = with green-yellow earth core **x** = without earth core

Harnessing RJ45 at both ends ▶ TIA56A

Harnessing one end RJ45/one end M12 x-coded ▶ TIA56B

igus® GmbH defines cable length as entire length including connectors or open harnessing. ▶ Page 961

## Harnessed Ethernet cables | CAT5e

\* Technical information on the cable quality:

**PVC, oil-res.** **PUR** **PUR-ROBOT** **TPE**  
Page 192 Page 200 Page 410 Page 204

Harnessed Ethernet cables, CAT5e Crossover, 8-pole, to your required length				
Cable quality	Part No.	Number of cores and conductor nominal cross section [mm <sup>2</sup> ]	Ø [mm]	Bend radius [x d]
<b>Harting RJ45 (CAT5e)/ Harting RJ45 (CAT5e)</b>				
PVC, oil-res.	CAT9340040	(4x(2x0.15))C	7.5	12.5
PUR	CAT9240040	(4x(2x0.15))C	7.5	12.5
PUR-ROBOT	CAT9440040	4x(2x0.15)C	9.5	10
TPE	CAT9040040	(4x(2x0.15))C	8.5	10
<b>Yamaichi RJ45 (CAT5)/ Yamaichi RJ45 (CAT5)</b>				
PVC, oil-res.	CAT9340080	(4x(2x0.15))C	7.5	12.5
PUR	CAT9240080	(4x(2x0.15))C	7.5	12.5
PUR-ROBOT	CAT9440080	4x(2x0.15)C	9.5	10
TPE	CAT9040080	(4x(2x0.15))C	8.5	10
<b>Phoenix Contact RJ45 (CAT5e)/ Phoenix Contact RJ45 (CAT5e)</b>				
PVC, oil-res.	CAT9340120	(4x(2x0.15))C	7.5	12.5
PUR	CAT9240120	(4x(2x0.15))C	7.5	12.5
PUR-ROBOT	CAT9440120	4x(2x0.15)C	9.5	10
TPE	CAT9040120	(4x(2x0.15))C	8.5	10
<b>Yamaichi RJ45 (CAT5) in Hummel M23 housing/Yamaichi RJ45 (CAT5) in Hummel M23 housing</b>				
PVC, oil-res.	CAT9340160	(4x(2x0.15))C	7.5	12.5
PUR	CAT9240160	(4x(2x0.15))C	7.5	12.5
PUR-ROBOT	CAT9440160	4x(2x0.15)C	9.5	10
TPE	CAT9040160	(4x(2x0.15))C	8.5	10
<b>Yamaichi RJ45 (CAT5) in Hummel M23 housing/Yamaichi RJ45 (CAT5) in Hummel M23 coupling housing</b>				
PVC, oil-res.	CAT9340200	(4x(2x0.15))C	7.5	12.5
PUR-ROBOT	CAT9440200	4x(2x0.15)C	9.5	10
TPE	CAT9040200	(4x(2x0.15))C	8.5	10
PUR	CAT9240200	(4x(2x0.15))C	7.5	12.5

**Note:** The given outer diameters are maximum values and may tend toward lower tolerance limits.  
G = with green-yellow earth core x = without earth core  
Harnessing RJ45 at both ends ▶ TIA56A  
Harnessing one end RJ45/one end M12 x-coded ▶ TIA56B  
igus® GmbH defines cable length as entire length including connectors or open harnessing. ▶ Page 961

## Harnessed Ethernet cables | CAT5e

\* Technical information on the cable quality:

**PVC, oil-res.** **PUR** **PUR-ROBOT** **TPE**  
Page 192 Page 200 Page 410 Page 204

Harnessed Ethernet cables, CAT5e, to your required length				
Cable quality	Part No.	Number of cores and conductor nominal cross section [mm <sup>2</sup> ]	Ø [mm]	Bend radius [x d]
<b>Hirose RJ45 (CAT5e)/ TE Intercontec 615 signal connector</b>				
PVC, oil-res.	CAT9340800	(4x(2x0.15))C	7.5	12.5
PUR	CAT9240800	(4x(2x0.15))C	7.5	12.5
PUR-ROBOT	CAT9440800	4x(2x0.15)C	9.5	10
TPE	CAT9040800	(4x(2x0.15))C	8.5	10
<b>TE Intercontec 615 signal coupling/ TE Intercontec 615 signal connector</b>				
PVC, oil-res.	CAT9340810	(4x(2x0.15))C	7.5	12.5
PUR	CAT9240810	(4x(2x0.15))C	7.5	12.5
PUR-ROBOT	CAT9440810	4x(2x0.15)C	9.5	10
TPE	CAT9040810	(4x(2x0.15))C	8.5	10
<b>TE Intercontec 615 signal coupling/ Hirose RJ45 (CAT5e)</b>				
PVC, oil-res.	CAT9340820	(4x(2x0.15))C	7.5	12.5
PUR	CAT9240820	(4x(2x0.15))C	7.5	12.5
PUR-ROBOT	CAT9440820	4x(2x0.15)C	9.5	10
TPE	CAT9040820	(4x(2x0.15))C	8.5	10

**Note:** The given outer diameters are maximum values and may tend toward lower tolerance limits.  
G = with green-yellow earth core x = without earth core  
Harnessing RJ45 at both ends ▶ TIA56A  
Harnessing one end RJ45/one end M12 x-coded ▶ TIA56B  
igus® GmbH defines cable length as entire length including connectors or open harnessing. ▶ Page 961

# Harnessed Ethernet cables | CAT5e

## PVC oil-res. with Hirose connectors

\* Technical information on the cable quality:

**PVC, oil-res.**

Page 192

Harnessed Ethernet cables, CAT5e, PVC, with Hirose connectors, 8-pole, to your required length				
Harnessing with connector combination	Part No.	Number of cores and conductor nominal cross section [mm <sup>2</sup> ]	Ø [mm]	Bend radius [x d]
<b>Straight</b>				
1   2	CAT9340380	(4x(2x0.15))C	7.5	12.5
1   3	CAT9340540	(4x(2x0.15))C	7.5	12.5
1   4	CAT9340560	(4x(2x0.15))C	7.5	12.5
1   5	CAT9340320	(4x(2x0.15))C	7.5	12.5
2   1	CAT9340360	(4x(2x0.15))C	7.5	12.5
2   2	CAT9340340	(4x(2x0.15))C	7.5	12.5
2   3	CAT9340500	(4x(2x0.15))C	7.5	12.5
2   4	CAT9340520	(4x(2x0.15))C	7.5	12.5
2   5	CAT9340300	(4x(2x0.15))C	7.5	12.5
3   3	CAT9340440	(4x(2x0.15))C	7.5	12.5
3   4	CAT9340480	(4x(2x0.15))C	7.5	12.5
3   5	CAT9340400	(4x(2x0.15))C	7.5	12.5
4   4	CAT9340460	(4x(2x0.15))C	7.5	12.5
4   5	CAT9340420	(4x(2x0.15))C	7.5	12.5
<b>Crossover</b>				
1   2	CAT9340390	(4x(2x0.15))C	7.5	12.5
1   3	CAT9340550	(4x(2x0.15))C	7.5	12.5
1   4	CAT9340570	(4x(2x0.15))C	7.5	12.5
1   5	CAT9340330	(4x(2x0.15))C	7.5	12.5
2   1	CAT9340370	(4x(2x0.15))C	7.5	12.5
2   2	CAT9340350	(4x(2x0.15))C	7.5	12.5
2   3	CAT9340510	(4x(2x0.15))C	7.5	12.5
2   4	CAT9340530	(4x(2x0.15))C	7.5	12.5
2   5	CAT9340310	(4x(2x0.15))C	7.5	12.5
3   3	CAT9340450	(4x(2x0.15))C	7.5	12.5
3   4	CAT9340490	(4x(2x0.15))C	7.5	12.5
3   5	CAT9340410	(4x(2x0.15))C	7.5	12.5
4   4	CAT9340470	(4x(2x0.15))C	7.5	12.5
4   5	CAT9340430	(4x(2x0.15))C	7.5	12.5

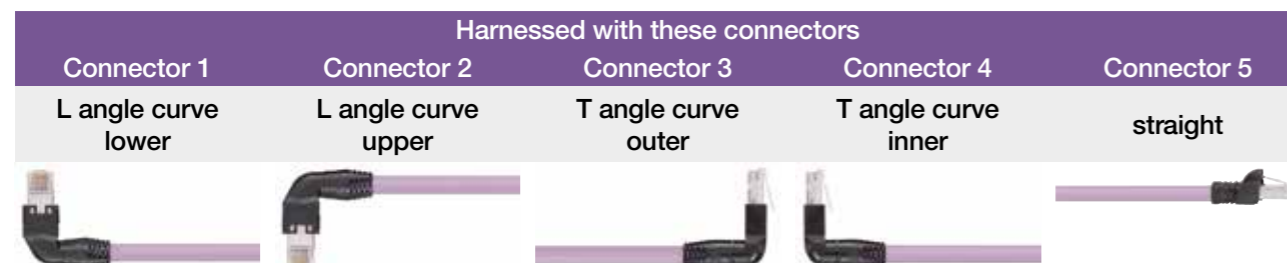
**Note:** The given outer diameters are maximum values and may tend toward lower tolerance limits.

G = with green-yellow earth core x = without earth core

Harnessing RJ45 at both ends ▶ TIA56A

Harnessing one end RJ45/one end M12 x-coded ▶ TIA56B

igus® GmbH defines cable length as entire length including connectors or open harnessing. ▶ Page 961



# Harnessed Ethernet cables | CAT5e

## PUR with Hirose connector

\* Technical information on the cable quality:

**PUR**

Page 200

Harnessed Ethernet cables, CAT5e, PUR, with Hirose connectors, 8-pole, to your required length				
Harnessing with connector combination	Part No.	Number of cores and conductor nominal cross section [mm <sup>2</sup> ]	Ø [mm]	Bend radius [x d]
<b>Straight</b>				
1   2	CAT9240380	(4x(2x0.15))C	7.5	12.5
1   3	CAT9240540	(4x(2x0.15))C	7.5	12.5
1   4	CAT9240560	(4x(2x0.15))C	7.5	12.5
1   5	CAT9240320	(4x(2x0.15))C	7.5	12.5
2   1	CAT9240360	(4x(2x0.15))C	7.5	12.5
2   2	CAT9240340	(4x(2x0.15))C	7.5	12.5
2   3	CAT9240500	(4x(2x0.15))C	7.5	12.5
2   4	CAT9240520	(4x(2x0.15))C	7.5	12.5
2   5	CAT9240300	(4x(2x0.15))C	7.5	12.5
3   3	CAT9240440	(4x(2x0.15))C	7.5	12.5
3   4	CAT9240480	(4x(2x0.15))C	7.5	12.5
3   5	CAT9240400	(4x(2x0.15))C	7.5	12.5
4   4	CAT9240460	(4x(2x0.15))C	7.5	12.5
4   5	CAT9240420	(4x(2x0.15))C	7.5	12.5
<b>Crossover</b>				
1   2	CAT9240390	(4x(2x0.15))C	7.5	12.5
1   3	CAT9240550	(4x(2x0.15))C	7.5	12.5
1   4	CAT9240570	(4x(2x0.15))C	7.5	12.5
1   5	CAT9240330	(4x(2x0.15))C	7.5	12.5
2   1	CAT9240370	(4x(2x0.15))C	7.5	12.5
2   2	CAT9240350	(4x(2x0.15))C	7.5	12.5
2   3	CAT9240510	(4x(2x0.15))C	7.5	12.5
2   4	CAT9240530	(4x(2x0.15))C	7.5	12.5
2   5	CAT9240310	(4x(2x0.15))C	7.5	12.5
3   3	CAT9240450	(4x(2x0.15))C	7.5	12.5
3   4	CAT9240490	(4x(2x0.15))C	7.5	12.5
3   5	CAT9240410	(4x(2x0.15))C	7.5	12.5
4   4	CAT9240470	(4x(2x0.15))C	7.5	12.5
4   5	CAT9240430	(4x(2x0.15))C	7.5	12.5

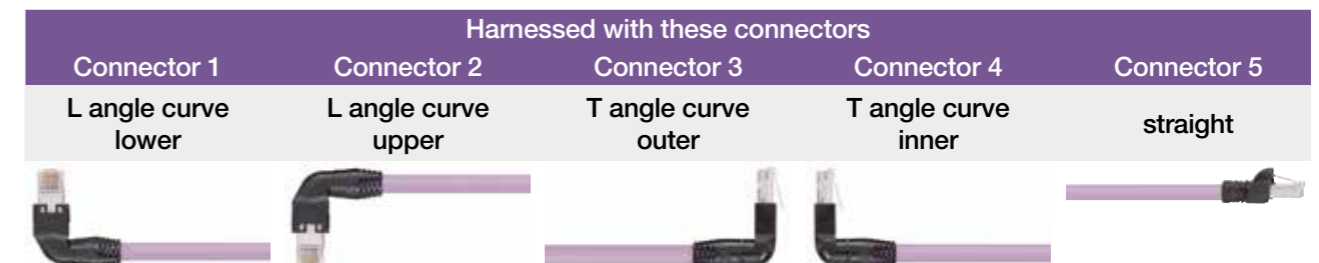
**Note:** The given outer diameters are maximum values and may tend toward lower tolerance limits.

G = with green-yellow earth core x = without earth core

Harnessing RJ45 at both ends ▶ TIA56A

Harnessing one end RJ45/one end M12 x-coded ▶ TIA56B

igus® GmbH defines cable length as entire length including connectors or open harnessing. ▶ Page 961



# Harnessed Ethernet cables | CAT5e

## PUR-ROBOT with Hirose connectors

\* Technical information on the cable quality:

### PUR-ROBOT

Page 410

Harnessed Ethernet cables, CAT5e, PUR-ROBOT, with Hirose connectors, 8-pole, to your required length				
Harnessing with connector combination	Part No.	Number of cores and conductor nominal cross section [mm <sup>2</sup> ]	Ø [mm]	Bend radius [x d]
<b>Straight</b>				
1   2	CAT9440380	4x(2x0.15)C	9.5	10
1   3	CAT9440540	4x(2x0.15)C	9.5	10
1   4	CAT9440560	4x(2x0.15)C	9.5	10
1   5	CAT9440320	4x(2x0.15)C	9.5	10
2   1	CAT9440360	4x(2x0.15)C	9.5	10
2   2	CAT9440340	4x(2x0.15)C	9.5	10
2   3	CAT9440500	4x(2x0.15)C	9.5	10
2   4	CAT9440520	4x(2x0.15)C	9.5	10
2   5	CAT9440300	4x(2x0.15)C	9.5	10
3   3	CAT9440440	4x(2x0.15)C	9.5	10
3   4	CAT9440480	4x(2x0.15)C	9.5	10
3   5	CAT9440400	4x(2x0.15)C	9.5	10
4   4	CAT9440460	4x(2x0.15)C	9.5	10
4   5	CAT9440420	4x(2x0.15)C	9.5	10
<b>Crossover</b>				
1   2	CAT9440390	4x(2x0.15)C	9.5	10
1   3	CAT9440550	4x(2x0.15)C	9.5	10
1   4	CAT9440570	4x(2x0.15)C	9.5	10
1   5	CAT9440330	4x(2x0.15)C	9.5	10
2   1	CAT9440370	4x(2x0.15)C	9.5	10
2   2	CAT9440350	4x(2x0.15)C	9.5	10
2   3	CAT9440510	4x(2x0.15)C	9.5	10
2   4	CAT9440530	4x(2x0.15)C	9.5	10
2   5	CAT9440310	4x(2x0.15)C	9.5	10
3   3	CAT9440450	4x(2x0.15)C	9.5	10
3   4	CAT9440490	4x(2x0.15)C	9.5	10
3   5	CAT9440410	4x(2x0.15)C	9.5	10
4   4	CAT9440470	4x(2x0.15)C	9.5	10
4   5	CAT9440430	4x(2x0.15)C	9.5	10

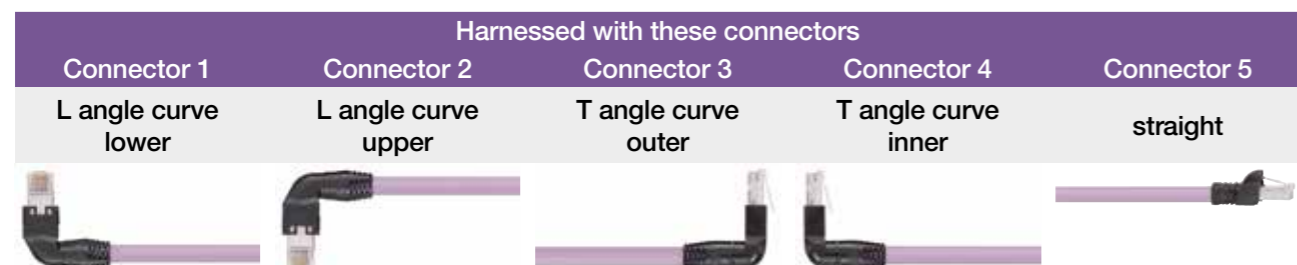
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G = with green-yellow earth core x = without earth core

Harnessing RJ45 at both ends ▶ TIA56A

Harnessing one end RJ45/one end M12 x-coded ▶ TIA56B

igus® GmbH defines cable length as entire length including connectors or open harnessing. ▶ Page 961



# Harnessed Ethernet cables | CAT5e

## TPE with Hirose connectors

\* Technical information on the cable quality:

### TPE

Page 204

Harnessed Ethernet cables, CAT5e, TPE, with Hirose connectors, 8-pole, to your required length				
Harnessing with connector combination	Part No.	Number of cores and conductor nominal cross section [mm <sup>2</sup> ]	Ø [mm]	Bend radius [x d]
<b>Straight</b>				
1   2	CAT9040380	(4x(2x0.15))C	8.5	10
1   3	CAT9040540	(4x(2x0.15))C	8.5	10
1   4	CAT9040560	(4x(2x0.15))C	8.5	10
1   5	CAT9040320	(4x(2x0.15))C	8.5	10
2   1	CAT9040360	(4x(2x0.15))C	8.5	10
2   2	CAT9040340	(4x(2x0.15))C	8.5	10
2   3	CAT9040500	(4x(2x0.15))C	8.5	10
2   4	CAT9040520	(4x(2x0.15))C	8.5	10
2   5	CAT9040300	(4x(2x0.15))C	8.5	10
3   3	CAT9040440	(4x(2x0.15))C	8.5	10
3   4	CAT9040480	(4x(2x0.15))C	8.5	10
3   5	CAT9040400	(4x(2x0.15))C	8.5	10
4   4	CAT9040460	(4x(2x0.15))C	8.5	10
4   5	CAT9040420	(4x(2x0.15))C	8.5	10
<b>Crossover</b>				
1   2	CAT9040390	(4x(2x0.15))C	8.5	10
1   3	CAT9040550	(4x(2x0.15))C	8.5	10
1   4	CAT9040570	(4x(2x0.15))C	8.5	10
1   5	CAT9040330	(4x(2x0.15))C	8.5	10
2   1	CAT9040370	(4x(2x0.15))C	8.5	10
2   2	CAT9040350	(4x(2x0.15))C	8.5	10
2   3	CAT9040510	(4x(2x0.15))C	8.5	10
2   4	CAT9040530	(4x(2x0.15))C	8.5	10
2   5	CAT9040310	(4x(2x0.15))C	8.5	10
3   3	CAT9040450	(4x(2x0.15))C	8.5	10
3   4	CAT9040490	(4x(2x0.15))C	8.5	10
3   5	CAT9040410	(4x(2x0.15))C	8.5	10
4   4	CAT9040470	(4x(2x0.15))C	8.5	10
4   5	CAT9040430	(4x(2x0.15))C	8.5	10

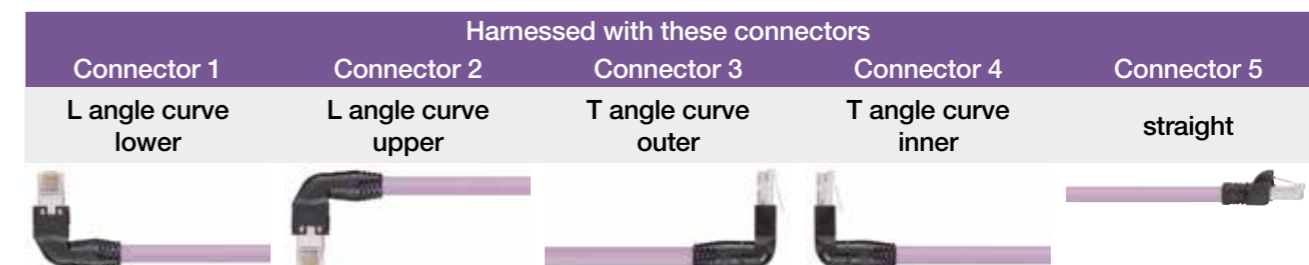
**Note:** The given outer diameters are maximum values and may tend toward lower tolerance limits.

G = with green-yellow earth core x = without earth core

Harnessing RJ45 at both ends ▶ TIA56A

Harnessing one end RJ45/one end M12 x-coded ▶ TIA56B

igus® GmbH defines cable length as entire length including connectors or open harnessing. ▶ Page 961



## Harnessed Ethernet cables | CAT6

\* Technical information on the cable quality:

**PVC, oil-res.** **PUR** **TPE**  
Page 192 Page 200 Page 204

Harnessed Ethernet cables, CAT6, to your required length				
Cable quality	Part No.	Number of cores and conductor nominal cross section [mm <sup>2</sup> ]	Ø [mm]	Bend radius [x d]
<b>Telegärtner RJ45 (CAT6A)/ Telegärtner RJ45 (CAT6A)</b>				
PVC, oil-res.	CAT9331002	(4x(2x0.15))C	7.5	12.5
PUR	CAT9431002	(4x(2x0.15))C	7.5	12.5
TPE	CAT9531002	(4x(2x0.15))C	8.5	10
<b>Harting RJ45 (CAT6A)/ Harting RJ45 (CAT6A)</b>				
PVC, oil-res.	CAT9331003	(4x(2x0.15))C	7.5	12.5
PUR	CAT9431003	(4x(2x0.15))C	7.5	12.5
TPE	CAT9531003	(4x(2x0.15))C	8.5	10
<b>Telegärtner RJ45 (CAT6)/ Telegärtner RJ45 (CAT6)</b>				
PVC, oil-res.	CAT9331004	(4x(2x0.15))C	7.5	12.5
PUR	CAT9431004	(4x(2x0.15))C	7.5	12.5
TPE	CAT9531004	(4x(2x0.15))C	8.5	10
<b>Telegärtner RJ45 (CAT6)/ Telegärtner M12 x-coded</b>				
PVC, oil-res.	CAT9331005	(4x(2x0.15))C	7.5	12.5
PUR	CAT9431005	(4x(2x0.15))C	7.5	12.5
TPE	CAT9531005	(4x(2x0.15))C	8.5	10
<b>Telegärtner RJ45 (CAT6)/ Telegärtner RJ45 angled (CAT6A)</b>				
PVC, oil-res.	CAT9331006	(4x(2x0.15))C	7.5	12.5
PUR	CAT9431006	(4x(2x0.15))C	7.5	12.5
TPE	CAT9531006	(4x(2x0.15))C	8.5	10

**Note:** The given outer diameters are maximum values and may tend toward lower tolerance limits.  
G = with green-yellow earth core x = without earth core  
Harnessing RJ45 at both ends ▶ TIA56A  
Harnessing one end RJ45/one end M12 x-coded ▶ TIA56B  
igus® GmbH defines cable length as entire length including connectors or open harnessing. ▶ Page 961

## Harnessed Ethernet cables | CAT6

\* Technical information on the cable quality:

**PVC, oil-res.** **PUR** **TPE**  
Page 192 Page 200 Page 204

Harnessed Ethernet cables, CAT6, to your required length				
Cable quality	Part No.	Number of cores and conductor nominal cross section [mm <sup>2</sup> ]	Ø [mm]	Bend radius [x d]
<b>Phoenix Contact RJ45 (CAT6A)/ Phoenix Contact RJ45 (CAT6A)</b>				
PVC, oil-res.	CAT9331009	(4x(2x0.15))C	7.5	12.5
PUR	CAT9431009	(4x(2x0.15))C	7.5	12.5
TPE	CAT9531009	(4x(2x0.15))C	8.5	10
<b>Phoenix Contact M12 x-coded (CAT6A)/ Phoenix Contact M12 x-coded (CAT6A)</b>				
PVC, oil-res.	CAT9331012	(4x(2x0.15))C	7.5	12.5
PUR	CAT9431012	(4x(2x0.15))C	7.5	12.5
TPE	CAT9531012	(4x(2x0.15))C	8.5	10

**Note:** The given outer diameters are maximum values and may tend toward lower tolerance limits.  
G = with green-yellow earth core x = without earth core  
Harnessing RJ45 at both ends ▶ TIA56A  
Harnessing one end RJ45/one end M12 x-coded ▶ TIA56B  
igus® GmbH defines cable length as entire length including connectors or open harnessing. ▶ Page 961



## Harnessed Ethernet cables | CAT6

\* Technical information on the cable quality:

TPE  
Page 204

Harnessed Ethernet cables, CAT6, 8-pole, to your required length				
Cable quality	Part No.	Number of cores and conductor nominal cross section [mm <sup>2</sup> ]	Ø [mm]	Bend radius [x d]
<b>Straight</b>				
Hirose RJ45 (CAT6A)/ Hirose RJ45 (CAT6A)				
TPE	CAT9040600	(4x(2x0.15)C)C	10.5	12.5
Metz RJ45 E-DAT IP67/ Metz RJ45 E-DAT IP67				
TPE	CAT9040640	(4x(2x0.15)C)C	10.5	12.5
Harting Han3A RJ45 (CAT6)/ Harting Han3A RJ45 (CAT6)				
TPE	CAT9040680	(4x(2x0.15)C)C	10.5	12.5
<b>Crossover</b>				
Hirose RJ45 (CAT6A)/ Hirose RJ45 (CAT6A)				
TPE	CAT9040620	(4x(2x0.15)C)C	10.5	12.5
Metz RJ45 E-DAT IP67/ Metz RJ45 E-DAT IP67				
TPE	CAT9040660	(4x(2x0.15)C)C	10.5	12.5
Harting Han3A RJ45 (CAT6)/ Harting Han3A RJ45 (CAT6)				
TPE	CAT9040700	(4x(2x0.15)C)C	10.5	12.5
<b>M12 x-coded</b>				
Telegärtner M12 x-coded (CAT6A)/ Telegärtner M12 x-coded (CAT6A)				
TPE	CAT9040720	(4x(2x0.15)C)C	10.5	12.5
Telegärtner M12 x-coded (CAT6A)/ open cable end				
TPE	CAT9040760	(4x(2x0.15)C)C	10.5	12.5

**Note:** The given outer diameters are maximum values and may tend toward lower tolerance limits.  
**G** = with green-yellow earth core **x** = without earth core  
 Harnessing RJ45 at both ends ▶ TIA56A  
 Harnessing one end RJ45/one end M12 x-coded ▶ TIA56B  
 igus® GmbH defines cable length as entire length including connectors or open harnessing. ▶ Page 961

## Harnessed Ethernet cables | CAT6A

\* Technical information on the cable quality:

PVC, oil-res. PUR PUR-ROBOT TPE  
Page 192 Page 200 Page 410 Page 204

Harnessed Ethernet cables, CAT6A, to your required length				
Cable quality	Part No.	Number of cores and conductor nominal cross section [mm <sup>2</sup> ]	Ø [mm]	Bend radius [x d]
Telegärtner RJ45 (CAT6A)/ Telegärtner RJ45 (CAT6A)				
PUR-ROBOT	CAT9641001	4x(2x0.15)C	10.5	10
TPE	CAT9541001	(4x(2x0.15)C)C	10.5	12.5
Harting RJ45 (CAT6A)/ Harting RJ45 (CAT6A)				
PUR-ROBOT	CAT9641002	4x(2x0.15)C	10.5	10
TPE	CAT9541002	(4x(2x0.15)C)C	10.5	12.5
Telegärtner RJ45 (CAT6A)/ Telegärtner RJ45 (CAT6A)				
PVC, oil-res.	CAT9341016	4x(2x0.20)C	10.0	12.5
PUR	CAT9441016	4x(2x0.20)C	10.0	12.5
PUR-ROBOT	CAT9641015	4x(2x0.15)C	10.5	10
TPE	CAT9541015	(4x(2x0.15)C)C	10.5	12.5
Telegärtner RJ45 (CAT6A)/ Telegärtner M12 x-coded				
PVC, oil-res.	CAT9341017	4x(2x0.20)C	10.0	12.5
PUR	CAT9441017	4x(2x0.20)C	10.0	12.5
PUR-ROBOT	CAT9641016	4x(2x0.15)C	10.5	10
TPE	CAT9541016	(4x(2x0.15)C)C	10.5	12.5
Telegärtner RJ45 (CAT6A)/ Telegärtner RJ45 angled (CAT6A)				
PVC, oil-res.	CAT9341018	4x(2x0.20)C	10.0	12.5
PUR	CAT9441018	4x(2x0.20)C	10.0	12.5
PUR-ROBOT	CAT9641017	4x(2x0.15)C	10.5	10
TPE	CAT9541017	(4x(2x0.15)C)C	10.5	12.5

**Note:** The given outer diameters are maximum values and may tend toward lower tolerance limits.  
**G** = with green-yellow earth core **x** = without earth core  
 Harnessing RJ45 at both ends ▶ TIA56A  
 Harnessing one end RJ45/one end M12 x-coded ▶ TIA56B  
 igus® GmbH defines cable length as entire length including connectors or open harnessing. ▶ Page 961

## Harnessed Ethernet cables | CAT6A

\* Technical information on the cable quality:

**PVC, oil-res.** **PUR** **PUR-ROBOT** **TPE**  
Page 192 Page 200 Page 410 Page 204

Harnessed Ethernet cables, CAT6A, to your required length				
Cable quality	Part No.	Number of cores and conductor nominal cross section [mm <sup>2</sup> ]	Ø [mm]	Bend radius [x d]
<b>Phoenix Contact M12 x-coded (CAT6A)/ Phoenix Contact M12 x-coded (CAT6A)</b>				
PVC, oil-res.	CAT9341010	4x(2x0.20)C	10.0	12.5
PUR	CAT9441010	4x(2x0.20)C	10.0	12.5
PUR-ROBOT	CAT9641009	4x(2x0.15)C	10.5	10
TPE	CAT9541009	(4x(2x0.15)C)C	10.5	12.5
<b>Harting M12 x-coded Socket (CAT6A)/ Harting M12 x-coded Pin (CAT6A)</b>				
PVC, oil-res.	CAT9341019	4x(2x0.20)C	10.0	12.5
PUR	CAT9441019	4x(2x0.20)C	10.0	12.5

**Note:** The given outer diameters are maximum values and may tend toward lower tolerance limits.  
G = with green-yellow earth core x = without earth core  
Harnessing RJ45 at both ends ▶ TIA56A  
Harnessing one end RJ45/one end M12 x-coded ▶ TIA56B  
igus® GmbH defines cable length as entire length including connectors or open harnessing. ▶ Page 961

## Harnessed Ethernet cables | CAT7

\* Technical information on the cable quality:

**PUR-ROBOT** **TPE**  
Page 410 Page 204

Harnessed Ethernet cables, CAT7, to your required length				
Cable quality	Part No.	Number of cores and conductor nominal cross section [mm <sup>2</sup> ]	Ø [mm]	Bend radius [x d]
<b>Telegärtner RJ45 (CAT6A)/ Telegärtner RJ45 (CAT6A)</b>				
PUR-ROBOT	CAT9651002	4x(2x0.15)C	10.5	10
TPE	CAT9551002	(4x(2x0.15)C)C	10.5	12.5
<b>Harting RJ45 (CAT6A)/ Harting RJ45 (CAT6A)</b>				
PUR-ROBOT	CAT9651003	4x(2x0.15)C	10.5	10
TPE	CAT9551003 <sup>1)</sup>	(4x(2x0.15)C)C	10.5	12.5
<b>Telegärtner RJ45 (CAT6A)/ Telegärtner RJ45 (CAT6A)</b>				
PUR-ROBOT	CAT9651004	4x(2x0.15)C	10.5	10
TPE	CAT9551004	(4x(2x0.15)C)C	10.5	12.5
<b>Telegärtner RJ45 (CAT6A)/ Telegärtner RJ45 angled (CAT6A)</b>				
PUR-ROBOT	CAT9651005	4x(2x0.15)C	10.5	10
TPE	CAT9551005	(4x(2x0.15)C)C	10.5	12.5
<b>Phoenix Contact M12 x-coded (CAT6A)/ Phoenix Contact M12 x-coded (CAT6A)</b>				
PUR-ROBOT	CAT9651009	4x(2x0.15)C	10.5	10
TPE	CAT9551009	(4x(2x0.15)C)C	10.5	12.5
<b>Dätwyler Module PS-TERA (CAT7A)/ Dätwyler Connector PS-TERA (CAT7A)</b>				
PUR-ROBOT	CAT9651010	4x(2x0.15)C	10.5	10
TPE	CAT9551010	(4x(2x0.15)C)C	10.5	12.5
<b>Dätwyler Module PS-TERA (CAT7A)/ Dätwyler Connector PS-TERA (CAT7A)</b>				
PUR-ROBOT	CAT9651011	4x(2x0.15)C	10.5	10
TPE	CAT9551011	(4x(2x0.15)C)C	10.5	12.5

<sup>1)</sup> This cable must be stripped before the connector and covered with a shrink-on tube so that the patch plug can be fitted.

**Note:** The given outer diameters are maximum values and may tend toward lower tolerance limits.  
G = with green-yellow earth core x = without earth core  
Harnessing RJ45 at both ends ▶ TIA56A  
Harnessing one end RJ45/one end M12 x-coded ▶ TIA56B  
igus® GmbH defines cable length as entire length including connectors or open harnessing. ▶ Page 961

# Industrial Ethernet moulded

\* Technical information on the cable quality:

PVC, oil-res. PUR  
Page 192 Page 200

Industrial Ethernet moulded, to your required length				
Cable quality	Part No.	Number of cores and conductor nominal cross section [mm <sup>2</sup> ]	Ø [mm]	Bend radius [x d]
<b>M8 cable socket/ M8 cable connector</b>				
PVC, oil-res.	MAT904125450	(4x0.25)C	6.5	12.5
PUR	MAT904125410	(4x0.25)C	6.5	12.5
<b>M8 cable connector/ M8 cable connector</b>				
PVC, oil-res.	MAT904125451	(4x0.25)C	6.5	12.5
PUR	MAT904125411	(4x0.25)C	6.5	12.5
<b>M8 angled socket/ open cable end</b>				
PVC, oil-res.	MAT904125452	(4x0.25)C	6.5	12.5
PUR	MAT904125412	(4x0.25)C	6.5	12.5
<b>M8 cable socket/ RJ45 straight</b>				
PVC, oil-res.	MAT904125453	(4x0.25)C	6.5	12.5
PUR	MAT904125413	(4x0.25)C	6.5	12.5
<b>M12 cable connector d-coded/ M12 cable connector d-coded</b>				
PVC, oil-res.	MAT904125454	(4x0.25)C	6.5	12.5
PUR	MAT904125414	(4x0.25)C	6.5	12.5
<b>M12 angled connector d-coded Pin/ open cable end</b>				
PVC, oil-res.	MAT904125455	(4x0.25)C	6.5	12.5
PUR	MAT904125415	(4x0.25)C	6.5	12.5
<b>M12 cable connector d-coded/ open cable end</b>				
PVC, oil-res.	MAT904125456	(4x0.25)C	6.5	12.5
PUR	MAT904125416	(4x0.25)C	6.5	12.5

Special production cables ► delivery time upon request

Note: The given outer diameters are maximum values and may tend toward lower tolerance limits.

G = with green-yellow earth core x = without earth core

Harnessing RJ45 at both ends ► TIA56A

igus® GmbH defines cable length as entire length including connectors or open harnessing. ► Page 961

# Industrial Ethernet moulded

\* Technical information on the cable quality:

PVC, oil-res. PUR  
Page 192 Page 200

Industrial Ethernet moulded, to your required length				
Cable quality	Part No.	Number of cores and conductor nominal cross section [mm <sup>2</sup> ]	Ø [mm]	Bend radius [x d]
<b>M12 cable connector d-coded/ RJ45 straight</b>				
PVC, oil-res.	MAT904125457	(4x0.25)C	6.5	12.5
PUR	MAT904125417	(4x0.25)C	6.5	12.5
<b>M12 angled connector d-coded RJ45 straight</b>				
PVC, oil-res.	MAT904125458	(4x0.25)C	6.5	12.5
PUR	MAT904125418	(4x0.25)C	6.5	12.5
<b>M12 cable connector d-coded/ M8 cable connector</b>				
PVC, oil-res.	MAT904125459	(4x0.25)C	6.5	12.5
PUR	MAT904125419	(4x0.25)C	6.5	12.5
<b>RJ45 straight/ RJ45 straight</b>				
PVC, oil-res.	MAT904125460	(4x0.25)C	6.5	12.5
PUR	MAT904125420	(4x0.25)C	6.5	12.5
<b>RJ45 straight/ open cable end</b>				
PVC, oil-res.	MAT904125461	(4x0.25)C	6.5	12.5
PUR	MAT904125421	(4x0.25)C	6.5	12.5
<b>M12 cable socket d-coded/ M12 cable connector d-coded</b>				
PVC, oil-res.	MAT904125462	(4x0.25)C	6.5	12.5
PUR	MAT904125422	(4x0.25)C	6.5	12.5
<b>M12 cable socket d-coded/ M12 angled connector d-coded</b>				
PVC, oil-res.	MAT904125463	(4x0.25)C	6.5	12.5
PUR	MAT904125423	(4x0.25)C	6.5	12.5

Special production cables ► delivery time upon request

Note: The given outer diameters are maximum values and may tend toward lower tolerance limits.

G = with green-yellow earth core x = without earth core

Harnessing RJ45 at both ends ► TIA56A

igus® GmbH defines cable length as entire length including connectors or open harnessing. ► Page 961

# Harnessed Profibus cables | PVC

\* Technical information on the cable quality:














**PVC, oil-res.**

Page 192

Harnessed Profibus cables, PVC, to your required length				
Harnessing with connector combination	Part No.	Number of cores and conductor nominal cross section [mm <sup>2</sup> ]	Ø [mm]	Bend radius [x d]
1   1	BUS9041004	(2x0.25)C	8.5	12.5
1   2	BUS9041001	(2x0.25)C	8.5	12.5
1   5	BUS9041011	(2x0.25)C	8.5	12.5
1   6	BUS9041006	(2x0.25)C	8.5	12.5
1   13	BUS9041005	(2x0.25)C	8.5	12.5
2   2	BUS9041002	(2x0.25)C	8.5	12.5
2   5	BUS9041013	(2x0.25)C	8.5	12.5
2   6	BUS9041007	(2x0.25)C	8.5	12.5
2   7	BUS9041054	(2x0.25)C	8.5	12.5
2   8	BUS9041059	(2x0.25)C	8.5	12.5
2   9	BUS9041062	(2x0.25)C	8.5	12.5
2   10	BUS9041055	(2x0.25)C	8.5	12.5
2   13	BUS9041003	(2x0.25)C	8.5	12.5
3   4	BUS9041066	(2x0.25)C	8.5	12.5
3   13	BUS9041064	(2x0.25)C	8.5	12.5
4   13	BUS9041065	(2x0.25)C	8.5	12.5
5   5	BUS9041014	(2x0.25)C	8.5	12.5
5   6	BUS9041010	(2x0.25)C	8.5	12.5
5   13	BUS9041012	(2x0.25)C	8.5	12.5
6   6	BUS9041009	(2x0.25)C	8.5	12.5
6   13	BUS9041008	(2x0.25)C	8.5	12.5
7   2	BUS9041053 <sup>1)</sup>	(2x0.25)C	8.5	12.5
7   13	BUS9041056	(2x0.25)C	8.5	12.5
8   2	BUS9041061 <sup>1)</sup>	(2x0.25)C	8.5	12.5
9   2	BUS9041060 <sup>1)</sup>	(2x0.25)C	8.5	12.5
9   13	BUS9041063	(2x0.25)C	8.5	12.5
10   2	BUS9041052 <sup>1)</sup>	(2x0.25)C	8.5	12.5
10   13	BUS9041057	(2x0.25)C	8.5	12.5
11   13	BUS9041058 <sup>1)</sup>	(2x0.25)C	8.5	12.5
12   2	BUS9041051 <sup>1)</sup>	(2x0.25)C	8.5	12.5

<sup>1)</sup>For connectors with IN and OUT connection, the connection is always made on the IN side when the cable is connected. Other configurations upon request.

**Note:** The given outer diameters are maximum values and may tend toward lower tolerance limits.  
**G** = with green-yellow earth core **x** = without earth core  
 igus® GmbH defines cable length as entire length including connectors or open harnessing. ► Page 961

Connector 1	Connector 2	Connector 3	Connector 4	Connector 5
M12, 5 poles, Socket, straight	M12, 5 poles, Pin, straight	M12, 5 poles, Pin, angled	M12, 5 poles, Socket, angled	M12, 5 poles, Socket, angled
				
Connector 6	Connector 7	Connector 8	Connector 9	Connector 10
M12, 5 poles, Pin, angled	SUB-D, 9 poles, Pin, straight	SUB-D, 9 poles, Pin, end plug, 90°	SUB-D, 9 poles, Pin, 45°, IP67	SUB-D, 9 poles, Pin, end plug, 45°
				
Connector 11	Connector 12	Connector 13		
SUB-D, 9 poles, Socket/Pin, pass, angled 45°	SUB-D, 9 poles, Socket/Pin, pass, angled 90°	open cable end		
				

\* For connectors with IN and OUT connection, the connection is always made on the IN side when the cable is connected. Other configurations upon request.

# Harnessed Profibus cables | PUR

\* Technical information on the cable quality:

**PUR**

Page 200

Harnessed Profibus cables, PUR, to your required length				
Harnessing with connector combination	Part No.	Number of cores and conductor nominal cross section [mm <sup>2</sup> ]	Ø [mm]	Bend radius [x d]
1   1	BUS9041104	(2x0.25)C	8.5	12.5
1   2	BUS9041101	(2x0.25)C	8.5	12.5
1   5	BUS9041111	(2x0.25)C	8.5	12.5
1   6	BUS9041106	(2x0.25)C	8.5	12.5
1   13	BUS9041105	(2x0.25)C	8.5	12.5
2   2	BUS9041102	(2x0.25)C	8.5	12.5
2   5	BUS9041113	(2x0.25)C	8.5	12.5
2   6	BUS9041107	(2x0.25)C	8.5	12.5
2   7	BUS9041154	(2x0.25)C	8.5	12.5
2   8	BUS9041159	(2x0.25)C	8.5	12.5
2   9	BUS9041162	(2x0.25)C	8.5	12.5
2   10	BUS9041155	(2x0.25)C	8.5	12.5
2   13	BUS9041103	(2x0.25)C	8.5	12.5
3   4	BUS9041166	(2x0.25)C	8.5	12.5
3   13	BUS9041164	(2x0.25)C	8.5	12.5
4   13	BUS9041165	(2x0.25)C	8.5	12.5
5   5	BUS9041114	(2x0.25)C	8.5	12.5
5   6	BUS9041110	(2x0.25)C	8.5	12.5
5   13	BUS9041112	(2x0.25)C	8.5	12.5
6   6	BUS9041109	(2x0.25)C	8.5	12.5
6   13	BUS9041108	(2x0.25)C	8.5	12.5
7   2	BUS9041153 <sup>1)</sup>	(2x0.25)C	8.5	12.5
7   13	BUS9041156	(2x0.25)C	8.5	12.5
8   2	BUS9041161 <sup>1)</sup>	(2x0.25)C	8.5	12.5
9   2	BUS9041160 <sup>1)</sup>	(2x0.25)C	8.5	12.5
9   13	BUS9041163	(2x0.25)C	8.5	12.5
10   2	BUS9041152 <sup>1)</sup>	(2x0.25)C	8.5	12.5
10   13	BUS9041157	(2x0.25)C	8.5	12.5
11   13	BUS9041158 <sup>1)</sup>	(2x0.25)C	8.5	12.5
12   2	BUS9041151 <sup>1)</sup>	(2x0.25)C	8.5	12.5

<sup>1)</sup>For connectors with IN and OUT connection, the connection is always made on the IN side when the cable is connected. Other configurations upon request.

**Note:** The given outer diameters are maximum values and may tend toward lower tolerance limits.  
**G** = with green-yellow earth core **x** = without earth core  
 igus® GmbH defines cable length as entire length including connectors or open harnessing. ► Page 961

Connector 1	Connector 2	Connector 3	Connector 4	Connector 5
M12, 5 poles, Socket, straight	M12, 5 poles, Pin, straight	M12, 5 poles, Pin, angled	M12, 5 poles, Socket, angled	M12, 5 poles, Socket, angled



Connector 6	Connector 7	Connector 8	Connector 9	Connector 10
M12, 5 poles, Pin, angled	SUB-D, 9 poles, Pin, straight	SUB-D, 9 poles, Pin, end plug, 90°	SUB-D, 9 poles, Pin, 45°, IP67	SUB-D, 9 poles, Pin, end plug, 45°



Connector 11	Connector 12	Connector 13
SUB-D, 9 poles, Socket/Pin, pass, angled 45°	SUB-D, 9 poles, Socket/Pin, pass, angled 90°	open cable end



\* For connectors with IN and OUT connection, the connection is always made on the IN side when the cable is connected. Other configurations upon request.

# Harnessed Profibus cables | TPE

\* Technical information on the cable quality:

**TPE**

Page 204

Harnessed Profibus cables, TPE, to your required length				
Harnessing with connector combination	Part No.	Number of cores and conductor nominal cross section [mm <sup>2</sup> ]	Ø [mm]	Bend radius [x d]
1   1	BUS9041204	(2x0.25)C	9.0	10
1   2	BUS9041201	(2x0.25)C	9.0	10
1   5	BUS9041211	(2x0.25)C	9.0	10
1   6	BUS9041206	(2x0.25)C	9.0	10
1   13	BUS9041205	(2x0.25)C	9.0	10
2   2	BUS9041202	(2x0.25)C	9.0	10
2   5	BUS9041213	(2x0.25)C	9.0	10
2   6	BUS9041207	(2x0.25)C	9.0	10
2   7	BUS9041254	(2x0.25)C	9.0	10
2   8	BUS9041259	(2x0.25)C	9.0	10
2   9	BUS9041262	(2x0.25)C	9.0	10
2   10	BUS9041255	(2x0.25)C	9.0	10
2   13	BUS9041203	(2x0.25)C	9.0	10
3   4	BUS9041266	(2x0.25)C	9.0	10
3   13	BUS9041264	(2x0.25)C	9.0	10
4   13	BUS9041265	(2x0.25)C	9.0	10
5   5	BUS9041214	(2x0.25)C	9.0	10
5   6	BUS9041210	(2x0.25)C	9.0	10
5   13	BUS9041212	(2x0.25)C	9.0	10
6   6	BUS9041209	(2x0.25)C	9.0	10
6   13	BUS9041208	(2x0.25)C	9.0	10
7   2	BUS9041253 <sup>1)</sup>	(2x0.25)C	9.0	10
7   13	BUS9041256	(2x0.25)C	9.0	10
8   2	BUS9041261 <sup>1)</sup>	(2x0.25)C	9.0	10
9   2	BUS9041260 <sup>1)</sup>	(2x0.25)C	9.0	10
9   13	BUS9041263	(2x0.25)C	9.0	10
10   2	BUS9041252 <sup>1)</sup>	(2x0.25)C	9.0	10
10   13	BUS9041257	(2x0.25)C	9.0	10
11   13	BUS9041258 <sup>1)</sup>	(2x0.25)C	9.0	10
12   2	BUS9041251 <sup>1)</sup>	(2x0.25)C	9.0	10

<sup>1)</sup>For connectors with IN and OUT connection, the connection is always made on the IN side when the cable is connected. Other configurations upon request.

**Note:** The given outer diameters are maximum values and may tend toward lower tolerance limits.  
**G** = with green-yellow earth core **x** = without earth core  
 igus® GmbH defines cable length as entire length including connectors or open harnessing. ► Page 961

Connector 1	Connector 2	Connector 3	Connector 4	Connector 5
M12, 5 poles, Socket, straight	M12, 5 poles, Pin, straight	M12, 5 poles, Pin, angled	M12, 5 poles, Socket, angled	M12, 5 poles, Socket, angled



Connector 6	Connector 7	Connector 8	Connector 9	Connector 10
M12, 5 poles, Pin, angled	SUB-D, 9 poles, Pin, straight	SUB-D, 9 poles, Pin, end plug, 90°	SUB-D, 9 poles, Pin, 45°, IP67	SUB-D, 9 poles, Pin, end plug, 45°



Connector 11	Connector 12	Connector 13
SUB-D, 9 poles, Socket/Pin, pass, angled 45°	SUB-D, 9 poles, Socket/Pin, pass, angled 90°	open cable end



\* For connectors with IN and OUT connection, the connection is always made on the IN side when the cable is connected. Other configurations upon request.

## Harnessed Profinet cables

\* Technical information on the cable quality:

<b>PVC</b> Page 188	<b>PVC, oil-res.</b> Page 192	<b>iguPUR</b> Page 196	<b>PUR</b> Page 200	<b>PUR-ROBOT</b> Page 410	<b>TPE</b> Page 204
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### Harnessed Profinet cables, to your required length

Cable quality	Part No.	Number of cores and conductor nominal cross section [mm <sup>2</sup> ]	Ø [mm]	Bend radius [x d]
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#### Yamaichi RJ45 (Profinet)/ Yamaichi RJ45 (Profinet)



<b>PVC</b>	<b>CAT9161001</b>	(4x0.34)C	7.0	15
<b>PVC, oil-res.</b>	<b>CAT9361001</b>	(4x0.38)C	7.0	12.5
<b>iguPUR</b>	<b>CAT9261001</b>	(4x0.34)C	7.0	15
<b>PUR</b>	<b>CAT9461001</b>	(4x0.38)C	7.0	12.5
<b>PUR-ROBOT</b>	<b>CAT9661001</b>	(2x(2x0.34))C	8.5	10
<b>TPE</b>	<b>CAT9561001</b>	(4x0.38)C	7.5	10

#### Harting Han3A RJ45 (Profinet)/ Harting Han3A RJ45 (Profinet)



<b>PVC</b>	<b>CAT9161002</b>	(4x0.34)C	7.0	15
<b>PVC, oil-res.</b>	<b>CAT9361002</b>	(4x0.38)C	7.0	12.5
<b>iguPUR</b>	<b>CAT9261002</b>	(4x0.34)C	7.0	15
<b>PUR</b>	<b>CAT9461002</b>	(4x0.38)C	7.0	12.5
<b>PUR-ROBOT</b>	<b>CAT9661002</b>	(2x(2x0.34))C	8.5	10
<b>TPE</b>	<b>CAT9561002</b>	(4x0.38)C	7.5	10

#### Harting RJ45 (Profinet)/ Harting RJ45 (Profinet)



<b>PVC</b>	<b>CAT9161003</b>	(4x0.34)C	7.0	15
<b>PVC, oil-res.</b>	<b>CAT9361003</b>	(4x0.38)C	7.0	12.5
<b>iguPUR</b>	<b>CAT9261003</b>	(4x0.34)C	7.0	15
<b>PUR</b>	<b>CAT9461003</b>	(4x0.38)C	7.0	12.5
<b>PUR-ROBOT</b>	<b>CAT9661003</b>	(2x(2x0.34))C	8.5	10
<b>TPE</b>	<b>CAT9561003</b>	(4x0.38)C	7.5	10

#### Telegärtner RJ45 (Profinet)/ Telegärtner RJ45 (Profinet)



<b>PVC</b>	<b>CAT9161004</b>	(4x0.34)C	7.0	15
<b>PVC, oil-res.</b>	<b>CAT9361004</b>	(4x0.38)C	7.0	12.5
<b>iguPUR</b>	<b>CAT9261004</b>	(4x0.34)C	7.0	15
<b>PUR</b>	<b>CAT9461004</b>	(4x0.38)C	7.0	12.5
<b>PUR-ROBOT</b>	<b>CAT9661004</b>	(2x(2x0.34))C	8.5	10
<b>TPE</b>	<b>CAT9561004</b>	(4x0.38)C	7.5	10

**Note:** The given outer diameters are maximum values and may tend toward lower tolerance limits.

**G** = with green-yellow earth core **x** = without earth core

Harnessing **RJ45 at both ends** ▶ TIA56A

Harnessing **one end RJ45/one end M12 x-coded** ▶ TIA56B

igus® GmbH defines cable length as entire length including connectors or open harnessing. ▶ Page 961

## Harnessed Profinet cables

\* Technical information on the cable quality:

<b>PVC</b> Page 188	<b>PVC, oil-res.</b> Page 192	<b>iguPUR</b> Page 196	<b>PUR</b> Page 200	<b>PUR-ROBOT</b> Page 410	<b>TPE</b> Page 204
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### Harnessed Profinet cables, to your required length

Cable quality	Part No.	Number of cores and conductor nominal cross section [mm <sup>2</sup> ]	Ø [mm]	Bend radius [x d]
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#### Telegärtner RJ45 (Profinet)/ Telegärtner RJ45 (Profinet)



<b>PVC</b>	<b>CAT9161005</b>	(4x0.34)C	7.0	15
<b>PVC, oil-res.</b>	<b>CAT9361005</b>	(4x0.38)C	7.0	12.5
<b>iguPUR</b>	<b>CAT9261005</b>	(4x0.34)C	7.0	15
<b>PUR</b>	<b>CAT9461005</b>	(4x0.38)C	7.0	12.5
<b>PUR-ROBOT</b>	<b>CAT9661005</b>	(2x(2x0.34))C	8.5	10
<b>TPE</b>	<b>CAT9561005</b>	(4x0.38)C	7.5	10

#### Telegärtner RJ45 (Profinet)/ Telegärtner M12 x-coded (Profinet)



<b>PVC</b>	<b>CAT9161006</b>	(4x0.34)C	7.0	15
<b>PVC, oil-res.</b>	<b>CAT9361006</b>	(4x0.38)C	7.0	12.5
<b>iguPUR</b>	<b>CAT9261006</b>	(4x0.34)C	7.0	15
<b>PUR</b>	<b>CAT9461006</b>	(4x0.38)C	7.0	12.5
<b>PUR-ROBOT</b>	<b>CAT9661006</b>	(2x(2x0.34))C	8.5	10
<b>TPE</b>	<b>CAT9561006</b>	(4x0.38)C	7.5	10

#### Telegärtner M12 x-coded (Profinet)/ Telegärtner M12 x-coded (Profinet)



<b>PVC</b>	<b>CAT9161007</b>	(4x0.34)C	7.0	15
<b>PVC, oil-res.</b>	<b>CAT9361007</b>	(4x0.38)C	7.0	12.5
<b>iguPUR</b>	<b>CAT9261007</b>	(4x0.34)C	7.0	15
<b>PUR</b>	<b>CAT9461007</b>	(4x0.38)C	7.0	12.5
<b>PUR-ROBOT</b>	<b>CAT9661007</b>	(2x(2x0.34))C	8.5	10
<b>TPE</b>	<b>CAT9561007</b>	(4x0.38)C	7.5	10

#### Telegärtner RJ45 (Profinet)/ Binder M12 d-coded (Profinet)



<b>PVC</b>	<b>CAT9161008</b>	(4x0.34)C	7.0	15
<b>PVC, oil-res.</b>	<b>CAT9361008</b>	(4x0.38)C	7.0	12.5
<b>iguPUR</b>	<b>CAT9261008</b>	(4x0.34)C	7.0	15
<b>PUR</b>	<b>CAT9461008</b>	(4x0.38)C	7.0	12.5
<b>PUR-ROBOT</b>	<b>CAT9661008</b>	(2x(2x0.34))C	8.5	10
<b>TPE</b>	<b>CAT9561008</b>	(4x0.38)C	7.5	10

**Note:** The given outer diameters are maximum values and may tend toward lower tolerance limits.

**G** = with green-yellow earth core **x** = without earth core

Harnessing **RJ45 at both ends** ▶ TIA56A

Harnessing **one end RJ45/one end M12 x-coded** ▶ TIA56B

igus® GmbH defines cable length as entire length including connectors or open harnessing. ▶ Page 961

## Harnessed Profinet cables

\* Technical information on the cable quality:

<b>PVC</b> Page 188	<b>PVC, oil-res.</b> Page 192	<b>iguPUR</b> Page 196	<b>PUR</b> Page 200	<b>PUR-ROBOT</b> Page 410	<b>TPE</b> Page 204
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### Harnessed Profinet cables, to your required length

Cable quality	Part No.	Number of cores and conductor nominal cross section [mm <sup>2</sup> ]	Ø [mm]	Bend radius [x d]
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Telegärtner RJ45 (Profinet)/  
Binder M12 d-coded angled (Profinet)



PVC	CAT9161009	(4x0.34)C	7.0	15
PVC, oil-res.	CAT9361009	(4x0.38)C	7.0	12.5
iguPUR	CAT9261009	(4x0.34)C	7.0	15
PUR	CAT9461009	(4x0.38)C	7.0	12.5
PUR-ROBOT	CAT9661009	(2x(2x0.34))C	8.5	10
TPE	CAT9561009	(4x0.38)C	7.5	10

Phoenix Contact RJ45 (Profinet)/  
Phoenix Contact RJ45 (Profinet)



PVC	CAT9161012	(4x0.34)C	7.0	15
PVC, oil-res.	CAT9361012	(4x0.38)C	7.0	12.5
iguPUR	CAT9261012	(4x0.34)C	7.0	15
PUR	CAT9461012	(4x0.38)C	7.0	12.5
PUR-ROBOT	CAT9661012	(2x(2x0.34))C	8.5	10
TPE	CAT9561012	(4x0.38)C	7.5	10

Phoenix Contact M12 x-coded (Profinet)/Phoenix Contact M12 x-coded (Profinet)



PVC	CAT9161014	(4x0.34)C	7.0	15
PVC, oil-res.	CAT9361014	(4x0.38)C	7.0	12.5
iguPUR	CAT9261014	(4x0.34)C	7.0	15
PUR	CAT9461014	(4x0.38)C	7.0	12.5
PUR-ROBOT	CAT9661014	(2x(2x0.34))C	8.5	10
TPE	CAT9561014	(4x0.38)C	7.5	10

Siemens RJ45 (Profinet)/  
Siemens RJ45 (Profinet)



PVC	CAT9161015	(4x0.34)C	7.0	15
PVC, oil-res.	CAT9361015	(4x0.38)C	7.0	12.5
iguPUR	CAT9261015	(4x0.34)C	7.0	15
PUR	CAT9461015	(4x0.38)C	7.0	12.5
PUR-ROBOT	CAT9661015	(2x(2x0.34))C	8.5	10
TPE	CAT9561015	(4x0.38)C	7.5	10

Note: The given outer diameters are maximum values and may tend toward lower tolerance limits.

G = with green-yellow earth core x = without earth core

Harnessing RJ45 at both ends ▶ TIA56A

Harnessing one end RJ45/one end M12 x-coded ▶ TIA56B

igus® GmbH defines cable length as entire length including connectors or open harnessing. ▶ Page 961

## Harnessed Profinet cables

\* Technical information on the cable quality:

<b>PVC</b> Page 188	<b>PVC, oil-res.</b> Page 192	<b>iguPUR</b> Page 196	<b>PUR</b> Page 200	<b>PUR-ROBOT</b> Page 410	<b>TPE</b> Page 204
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### Harnessed Profinet cables, to your required length

Cable quality	Part No.	Number of cores and conductor nominal cross section [mm <sup>2</sup> ]	Ø [mm]	Bend radius [x d]
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Siemens RJ45 (Profinet)/  
Siemens RJ45 angled (Profinet)



PVC	CAT9161016	(4x0.34)C	7.0	15
PVC, oil-res.	CAT9361016	(4x0.38)C	7.0	12.5
iguPUR	CAT9261016	(4x0.34)C	7.0	15
PUR	CAT9461016	(4x0.38)C	7.0	12.5
PUR-ROBOT	CAT9661016	(2x(2x0.34))C	8.5	10
TPE	CAT9561016	(4x0.38)C	7.5	10

Binder M12 cable connector d-coded/  
Binder M12 cable connector d-coded



PVC	CAT9161017	(4x0.34)C	7.0	15
PVC, oil-res.	CAT9361017	(4x0.38)C	7.0	12.5
iguPUR	CAT9261017	(4x0.34)C	7.0	15
PUR	CAT9461017	(4x0.38)C	7.0	12.5
PUR-ROBOT	CAT9661017	(2x(2x0.34))C	8.5	10
TPE	CAT9561017	(4x0.38)C	7.5	10

Binder cable connector M12 d-coded/  
Binder cable socket M12 d-coded



PVC	CAT9161018	(4x0.34)C	7.0	15
PVC, oil-res.	CAT9361018	(4x0.38)C	7.0	12.5
iguPUR	CAT9261018	(4x0.34)C	7.0	15
PUR	CAT9461018	(4x0.38)C	7.0	12.5
PUR-ROBOT	CAT9661018	(2x(2x0.34))C	8.5	10
TPE	CAT9561018	(4x0.38)C	7.5	10

Note: The given outer diameters are maximum values and may tend toward lower tolerance limits.

G = with green-yellow earth core x = without earth core

Harnessing RJ45 at both ends ▶ TIA56A

Harnessing one end RJ45/one end M12 x-coded ▶ TIA56B

igus® GmbH defines cable length as entire length including connectors or open harnessing. ▶ Page 961



# Industrial Profinet cables with moulded connectors

\* Technical information on the cable quality:

PVC, oil-res. PUR  
Page 192 Page 200

Industrial Profinet moulded, to your required length				
Cable quality	Part No.	Number of cores and conductor nominal cross section [mm <sup>2</sup> ]	Ø [mm]	Bend radius [x d]
<b>M8 cable socket/ M8 cable connector</b>				
PVC, oil-res.	MAT904125470	(4x0.38)C	7.0	12.5
PUR	MAT904125430	(4x0.38)C	7.0	12.5
<b>M8 cable connector/ M8 cable connector</b>				
PVC, oil-res.	MAT904125471	(4x0.38)C	7.0	12.5
PUR	MAT904125431	(4x0.38)C	7.0	12.5
<b>M8 angled socket/ open cable end</b>				
PVC, oil-res.	MAT904125472	(4x0.38)C	7.0	12.5
PUR	MAT904125432	(4x0.38)C	7.0	12.5
<b>M8 cable socket/ RJ45 straight</b>				
PVC, oil-res.	MAT904125473	(4x0.38)C	7.0	12.5
PUR	MAT904125433	(4x0.38)C	7.0	12.5
<b>M12 cable connector d-coded/ M12 cable connector d-coded</b>				
PVC, oil-res.	MAT904125474	(4x0.38)C	7.0	12.5
PUR	MAT904125434	(4x0.38)C	7.0	12.5
<b>M12 angled connector d-coded/ open cable end</b>				
PVC, oil-res.	MAT904125475	(4x0.38)C	7.0	12.5
PUR	MAT904125435	(4x0.38)C	7.0	12.5
<b>M12 cable connector d-coded/ open cable end</b>				
PVC, oil-res.	MAT904125476	(4x0.38)C	7.0	12.5
PUR	MAT904125436	(4x0.38)C	7.0	12.5

Special production cables ► delivery time upon request

Note: The given outer diameters are maximum values and may tend toward lower tolerance limits.

G = with green-yellow earth core x = without earth core

Harnessing RJ45 at both ends ► TIA56A

igus® GmbH defines cable length as entire length including connectors or open harnessing. ► Page 961

# Industrial Profinet cables moulded

\* Technical information on the cable quality:

PVC, oil-res. PUR  
Page 192 Page 200

Industrial Profinet moulded, to your required length				
Cable quality	Part No.	Number of cores and conductor nominal cross section [mm <sup>2</sup> ]	Ø [mm]	Bend radius [x d]
<b>M12 cable connector d-coded/ RJ45 straight</b>				
PVC, oil-res.	MAT904125477	(4x0.38)C	7.0	12.5
PUR	MAT904125437	(4x0.38)C	7.0	12.5
<b>M12 angled connector d-coded RJ45 straight</b>				
PVC, oil-res.	MAT904125478	(4x0.38)C	7.0	12.5
PUR	MAT904125438	(4x0.38)C	7.0	12.5
<b>M12 cable connector d-coded/ M8 cable connector</b>				
PVC, oil-res.	MAT904125479	(4x0.38)C	7.0	12.5
PUR	MAT904125439	(4x0.38)C	7.0	12.5
<b>RJ45 straight/ RJ45 straight</b>				
PVC, oil-res.	MAT904125480	(4x0.38)C	7.0	12.5
PUR	MAT904125440	(4x0.38)C	7.0	12.5
<b>RJ45 straight/ open cable end</b>				
PVC, oil-res.	MAT904125481	(4x0.38)C	7.0	12.5
PUR	MAT904125441	(4x0.38)C	7.0	12.5
<b>M12 cable socket d-coded/ M12 cable connector d-coded</b>				
PVC, oil-res.	MAT904125482	(4x0.38)C	7.0	12.5
PUR	MAT904125442	(4x0.38)C	7.0	12.5
<b>M12 cable socket d-coded/ M12 cable connector d-coded</b>				
PVC, oil-res.	MAT904125483	(4x0.38)C	7.0	12.5
PUR	MAT904125443	(4x0.38)C	7.0	12.5

Special production cables ► delivery time upon request

Note: The given outer diameters are maximum values and may tend toward lower tolerance limits.

G = with green-yellow earth core x = without earth core

Harnessing RJ45 at both ends ► TIA56A

igus® GmbH defines cable length as entire length including connectors or open harnessing. ► Page 961

# Harnessed Profinet cables with moulded connectors

\* Technical information on the cable quality:

<b>PVC</b>	<b>PVC, oil-res.</b>	<b>iguPUR</b>	<b>PUR</b>	<b>PUR-ROBOT</b>	<b>TPE</b>
Page 188	Page 192	Page 196	Page 200	Page 410	Page 204

Harnessed Profinet cables with moulded M12 connectors, in fixed lengths					
Cable quality	Part No.	Number of cores and conductor nominal cross section [mm <sup>2</sup> ]	Ø [mm]	Bend radius [x d]	Cable length [m]

M12 cable connector d-coded/  
M12 cable connector d-coded



PVC, oil-res.	BUS9041070	(4x0.38)C	7.0	12.5	3
PVC, oil-res.	BUS9041071	(4x0.38)C	7.0	12.5	5
PUR	BUS9041170	(4x0.38)C	7.0	12.5	3
PUR	BUS9041171	(4x0.38)C	7.0	12.5	5
TPE	BUS9041270	(4x0.38)C	7.5	10	3
TPE	BUS9041271	(4x0.38)C	7.5	10	5

M12 cable connector d-coded/  
open cable end



PVC, oil-res.	BUS9041072	(4x0.38)C	7.0	12.5	3
PVC, oil-res.	BUS9041073	(4x0.38)C	7.0	12.5	5
PUR	BUS9041172	(4x0.38)C	7.0	12.5	3
PUR	BUS9041173	(4x0.38)C	7.0	12.5	5
TPE	BUS9041272	(4x0.38)C	7.5	10	3
TPE	BUS9041273	(4x0.38)C	7.5	10	5

**Note:** The given outer diameters are maximum values and may tend toward lower tolerance limits.

G = with green-yellow earth core x = without earth core

Harnessing RJ45 at both ends ▶ TIA56A

Harnessing one end RJ45/one end M12 x-coded ▶ TIA56B

igus® GmbH defines cable length as entire length including connectors or open harnessing. ▶ Page 961

# Harnessed DeviceNet cable with Binder M12 A-coded

\* Technical information on the cable quality:

<b>TPE</b>
Page 204

Harnessed DeviceNet cable, to your required length				
Cable quality	Part No.	Number of cores and conductor nominal cross section [mm <sup>2</sup> ]	Ø [mm]	Bend radius [x d]

Binder cable connector M12 A-coded/  
Binder cable socket M12 A-coded



TPE	CAT9581001 <b>New</b>	((2xAWG24)C+2xAWG22)C	7.0	10
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
**Note:** The given outer diameters are maximum values and may tend toward lower tolerance limits.

G = with green-yellow earth core x = without earth core

Harnessing RJ45 at both ends ▶ TIA56A

















Harnessing one end RJ45/one end M12 x-coded ▶ TIA56B

igus® GmbH defines cable length as entire length including connectors or open harnessing. ▶ Page 961

		igus® Part No.	Manufacturer	Cable diameter mm	Protection class	Number of contacts	Connection method	Bus type	Conductor cross section [mm <sup>2</sup> ]	Cable quality	matching chainflex® cables	Maximum cable diameter mm	Number of cores and conductor nominal cross section								
		MAT01717352	HARTING	4.5-9.0	IP20	8	Cutting clamps	CAT6	0.14-0.34	PVC	CFBUS.PVC.049	7.5	(4x(2x0.15))C								
										PUR	CFBUS.PUR.049	7.5	(4x(2x0.15))C								
										TPE	CFBUS.049	8.5	(4x(2x0.15))C								
										PUR-Robot	CFROBOT8.049	8.5	4x(2x0.14)C								
		MAT01713662	HARTING	6.0-6.9	IP20	8	Hand tool needed	CAT6	0.09-0.25	PVC	CFBUS.PVC.049*	7.5	(4x(2x0.15))C								
										PUR	CFBUS.PUR.049*	7.5	(4x(2x0.15))C								
		MAT0176869	Phoenix Contact	4.5-8.0	IP20	8	Cutting clamps	CAT5e	0.14-0.25	PVC	CF888.045	7.5	(4x(2x0.15))C								
										PVC	CFBUS.PVC.045	7.5	(4x(2x0.15))C								
										iguPUR	CF898.045	7.5	(4x(2x0.15))C								
										PUR	CFBUS.PUR.045	7.5	(4x(2x0.15))C								
										TPE	CFBUS.045*	8.5	(4x(2x0.15))C								
										PUR-Robot	CFROBOT8.045*	8.5	4x(2x0.14)C								
		MAT01733149	Telegärtner	5.5-7.3	IP20	8	Hand tool needed	CAT6A CAT6	0.14-0.25	TPE	CFBUS.050*	10.5	4x(2x0.15)C)C								
										PUR-Robot	CFROBOT8.050*	10.5	4x(2x0.15)C								
		MAT01733150	Telegärtner	max. 7.0	IP20	-	-	-	-	PVC	CFBUS.PVC.049	7.5	(4x(2x0.15))C								
										PUR	CFBUS.PUR.049	7.5	(4x(2x0.15))C								
										TPE	CFBUS.049*	8.5	(4x(2x0.15))C								
										PUR-Robot	CFROBOT8.049*	8.5	4x(2x0.14)C								
		MAT0176370	Yamaichi	-	IP20	8	Hand tool needed	CAT6	0.14-0.25	PVC	CFBUS.PVC.049	7.5	(4x(2x0.15))C								
										PUR	CFBUS.PUR.049	7.5	(4x(2x0.15))C								
										TPE	CFBUS.049*	8.5	(4x(2x0.15))C								
		MAT0176371	Yamaichi	max. 7.5	IP20	-	-	-	-	PUR-Robot	CFROBOT8.049*	8.5	4x(2x0.14)C								
										MAT0176372	Yamaichi	-	-	-	-	-	-	-	-	-	-
												MAT01717477	WEIDMÜLLER	5.5-8.5	IP20	8	Cutting clamps	Cat.6 (CAT6A acc. to data sheet)	0.14-0.34	PVC	CFBUS.PVC.049
PUR	CFBUS.PUR.049	7.5	(4x(2x0.15))C																		
TPE	CFBUS.049	8.5	(4x(2x0.15))C																		
PUR-Robot	CFROBOT8.049	8.5	4x(2x0.14)C																		
		MAT01730294	Telegärtner	5.5-10.0	IP20	8	Cutting clamps	CAT6A	0.14-0.34	PVC	CFBUS.PVC.050	9.5	4x(2x0.20)C								
										PUR	CFBUS.PUR.050	9.5	4x(2x0.20)C								
										TPE	CFBUS.050*	10.5	(4x(2x0.15))C)C								
										PUR-Robot	CFROBOT8.050*	10.5	4x(2x0.15)C								
		MAT0173509	HARTING	6.0-7.0	IP20	4	Cutting clamps	CAT5/ Profinet	0.14-0.34	PVC	CF888.060	7	(4x0.38)C								
										PVC	CFBUS.PVC.040	6.5	(4x0.25)C								
										PVC	CFBUS.PVC.060	7	(4x0.38)C								
										iguPUR	CF898.060	7	(4x0.38)C								
										PUR	CFBUS.PUR.040	6.5	(4x0.25)C								
										PUR	CFBUS.PUR.060	7	(4x0.38)C								
										TPE	CFBUS.040	7	(4x0.25)C								
										TPE	CFBUS.060*	7.5	(4x0.38)C								
										PUR-Robot	CFROBOT8.060*	8.5	(2x(2x0.34))C								
										PVC	CFBUS.PVC.052*	9.5	(4x(2x0.15))C)C								
PUR	CFBUS.PUR.052*	9.5	(4x(2x0.15))C)C																		
TPE	CFBUS.052*	10.5	(4x(2x0.15))C)C																		
PUR-Robot	CFROBOT8.052*	10.5	4x(2x0.15)C																		
		MAT01733547	Dätwyler	max. 8.9	IP20	8	Cutting clamps	CAT7A	0.15-0.34	PVC	CFBUS.PVC.052*	9.5	(4x(2x0.15))C)C								
										PUR	CFBUS.PUR.052*	9.5	(4x(2x0.15))C)C								
										TPE	CFBUS.052*	10.5	(4x(2x0.15))C)C								
										PUR-Robot	CFROBOT8.052*	10.5	4x(2x0.15)C								
		MAT01733548	Dätwyler	max. 6.3	IP20	8	Cutting clamps	CAT7A	0.15-0.34	PVC	CFBUS.PVC.052*	9.5	(4x(2x0.15))C)C								
										PUR	CFBUS.PUR.052*	9.5	(4x(2x0.15))C)C								
										TPE	CFBUS.052*	10.5	(4x(2x0.15))C)C								
										PUR-Robot	CFROBOT8.052*	10.5	4x(2x0.15)C								
		MAT0179875	Binder	6.0-8.0	IP67	4	Screw clamps	CAT5/ Profinet	max. 0.75	PVC	CF888.060	7	(4x0.38)C								
										PVC	CFBUS.PVC.040	6.5	(4x0.25)C								
										PVC	CFBUS.PVC.060	7	(4x0.38)C								
										iguPUR	CF898.060	7	(4x0.38)C								
										PUR	CFBUS.PUR.040	6.5	(4x0.25)C								
										PUR	CFBUS.PUR.060	7	(4x0.38)C								
										TPE	CFBUS.040	7	(4x0.25)C								
										TPE	CFBUS.060	7.5	(4x0.38)C								
										PUR-Robot	CFROBOT8.060*	8.5	(2x(2x0.34))C								

All connectors are downward compatible. Please note the outer diameter of the cable and the conductor cross section.

\* According to data sheet, the connectors do not match these cables but the cables can nevertheless be manually modified/tapered.

igus® Part No.		Manufacturer	Cable diameter mm	Protection class	Number of contacts	Connection method	Bus type	Conductor cross section [mm²]	Cable quality	matching chainflex® cables	Maximum cable diameter mm	Number of cores and conductor nominal cross section	
		Series 615 connector, socket	TE/Intercontec	4.5-10.5 (plastic clamp ring) 4.5-12mm (metal clamp ring)	IP67	12	Hand tool needed	CAT5e/Profinet	0.05-0.75	PVC	CF888.060	7	(4x0.38)C
										PVC	CFBUS.PVC.040	6.5	(4x0.25)C
										PVC	CFBUS.PVC.060	7	(4x0.38)C
										iguPUR	CF898.060	7	(4x0.38)C
										PUR	CFBUS.PUR.040	6.5	(4x0.25)C
										PUR	CFBUS.PUR.060	7	(4x0.38)C
										TPE	CFBUS.040	7	(4x0.25)C
										TPE	CFBUS.060	7.5	(4x0.38)C
PUR-Robot	CFROBOT8.060*	8.5	(2x(2x0.34))C										
		615 Coupling	TE/Intercontec	4.5-10.5 (plastic clamp ring) 4.5-12mm (metal clamp ring)	IP67	12	Hand tool needed	CAT5e/Profinet	0.05-0.75	PVC	CF888.060	7	(4x0.38)C
										PVC	CFBUS.PVC.040	6.5	(4x0.25)C
										PVC	CFBUS.PVC.060	7	(4x0.38)C
										iguPUR	CF898.060	7	(4x0.38)C
										PUR	CFBUS.PUR.040	6.5	(4x0.25)C
										PUR	CFBUS.PUR.060	7	(4x0.38)C
										TPE	CFBUS.040	7	(4x0.25)C
										TPE	CFBUS.060	7.5	(4x0.38)C
PUR-Robot	CFROBOT8.060*	8.5	(2x(2x0.34))C										
		MAT01733199	Phoenix Contact	5.0-9.7	IP67	8	Cutting clamps	CAT6A/Ethernet	0.14-0.34	PVC	CFBUS.PVC.050	9.5	4x(2x0.20)C
										PUR	CFBUS.PUR.050	9.5	4x(2x0.20)C
										TPE	CFBUS.050*	10.5	(4x(2x0.15))C
										PUR-Robot	CFROBOT8.050*	10.5	4x(2x0.15)C
		MAT01733200	Phoenix Contact	5.0-9.7	IP67	8	Cutting clamps	CAT6A/Profinet	0.25-0.5	PVC	CF888.060	7	(4x0.38)C
										PVC	CFBUS.PVC.040	6.5	(4x0.25)C
										PVC	CFBUS.PVC.060	7	(4x0.38)C
										iguPUR	CF898.060	7	(4x0.38)C
										PUR	CFBUS.PUR.040	6.5	(4x0.25)C
										PUR	CFBUS.PUR.060	7	(4x0.38)C
										TPE	CFBUS.040	7	(4x0.25)C
										TPE	CFBUS.060	7.5	(4x0.38)C
PUR-Robot	CFROBOT8.060	8.5	(2x(2x0.34))C										
		MAT01734849	Phoenix Contact	5.0-9.7	IP67	8	Cutting clamps	CAT6A/Ethernet	0.14-0.34	PVC	CFBUS.PVC.050	9.5	4x(2x0.20)C
										PUR	CFBUS.PUR.050	9.5	4x(2x0.20)C
										TPE	CFBUS.050*	10.5	(4x(2x0.15))C
										PUR-Robot	CFROBOT8.050*	10.5	4x(2x0.15)C
		MAT01735081	Phoenix Contact	5.0-9.7	IP67	8	Cutting clamps	CAT6A/Profinet	0.25-0.5	PVC	CF888.060	7	(4x0.38)C
										PVC	CFBUS.PVC.040	6.5	(4x0.25)C
										PVC	CFBUS.PVC.060	7	(4x0.38)C
										iguPUR	CF898.060	7	(4x0.38)C
										PUR	CFBUS.PUR.040	6.5	(4x0.25)C
										PUR	CFBUS.PUR.060	7	(4x0.38)C
										TPE	CFBUS.040	7	(4x0.25)C
										TPE	CFBUS.060	7.5	(4x0.38)C
PUR-Robot	CFROBOT8.060	8.5	(2x(2x0.34))C										
		MAT01716619	Siemens	6.5-6.5	IP20	4	Cutting clamps	CAT5/Profinet	0.14-0.38	PVC	CF888.060	7	(4x0.38)C
										PVC	CFBUS.PVC.040	6.5	(4x0.25)C
										PVC	CFBUS.PVC.060	7	(4x0.38)C
										iguPUR	CF898.060	7	(4x0.38)C
										PUR	CFBUS.PUR.040	6.5	(4x0.25)C
										PUR	CFBUS.PUR.060	7	(4x0.38)C
										TPE	CFBUS.040	7	(4x0.25)C
										TPE	CFBUS.060*	7.5	(4x0.38)C
		MAT01721074	Siemens	8.0-8.0	IP20	8	Cutting clamps	CAT6	0.14-0.25	PVC	CFBUS.PVC.049	7.5	(4x(2x0.15))C
										PUR	CFBUS.PUR.049	7.5	(4x(2x0.15))C
										TPE	CFBUS.049*	8.5	(4x(2x0.15))C
										PUR-Robot	CFROBOT8.049*	8.5	4x(2x0.14)C

All connectors are downward compatible. Please note the outer diameter of the cable and the conductor cross section.

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