








# Camera

Video / vision / bus technology



## chainflex® readycable®

Cable type	Jacket	Page
<b>Harnessed bus cables</b>		
 FireWire	Pre-harnessed cable TPE	468
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**igus 36-month chainflex cable guarantee and service life calculator based on 2 billion test cycles per year**



# Harnessed bus cable | FireWire

\* Technical information on the cable quality:

TPE









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Harnessed bus cables, FireWire, to your required length					
Cable quality	Part No.	chainflex® cable	Number of cores and conductor nominal cross section [mm²]	Ø [mm]	Bend radius [x d]
<b>Socket A/Socket A</b>					
Pre-harnessed at both ends					
TPE	MAT9048160	CFBUS.055	2x(2x0.15)C+2x(0.34)C	8.0	12.5
<b>Socket A/Pin A</b>					
Pre-harnessed at both ends					
TPE	MAT9048621	CFBUS.055	2x(2x0.15)C+2x(0.34)C	8.0	12.5
<b>Socket A/Socket B</b>					
Pre-harnessed at both ends					
TPE	MAT9048623	CFBUS.055	2x(2x0.15)C+2x(0.34)C	8.0	12.5
<b>Socket A/Pin B</b>					
Pre-harnessed at both ends					
TPE	MAT9048625	CFBUS.055	2x(2x0.15)C+2x(0.34)C	8.0	12.5
<b>Pin B/Pin B</b>					
Pre-harnessed at both ends					
TPE	MAT9048627	CFBUS.055	2x(2x0.15)C+2x(0.34)C	8.0	12.5
<b>Pin A/Pin A</b>					
Pre-harnessed at both ends					
TPE	MAT9048620	CFBUS.055	2x(2x0.15)C+2x(0.34)C	8.0	12.5
<b>Pin A/Socket B</b>					
Pre-harnessed at both ends					
TPE	MAT9048622	CFBUS.055	2x(2x0.15)C+2x(0.34)C	8.0	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  
igus® GmbH defines cable length as entire length including connectors or open harnessing. ► Page 961

Harnessed bus cables, FireWire, to your required length					
Cable quality	Part No.	chainflex® cable	Number of cores and conductor nominal cross section [mm²]	Ø [mm]	Bend radius [x d]
<b>Pin A/Pin B</b>					
Pre-harnessed at both ends					
TPE	MAT9048624	CFBUS.055	2x(2x0.15)C+2x(0.34)C	8.0	12.5
<b>Socket B/Socket B</b>					
Pre-harnessed at both ends					
TPE	MAT9048626	CFBUS.055	2x(2x0.15)C+2x(0.34)C	8.0	12.5
<b>Socket B/Pin B</b>					
Pre-harnessed at both ends					
TPE	MAT9048628	CFBUS.055	2x(2x0.15)C+2x(0.34)C	8.0	12.5

Note: The given outer diameters are maximum values and may tend toward lower tolerance limits.  
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Harnessed with these connectors		
Socket A (connector body), with clip		
Pin A (pin body), with clip		
Socket B (moulded connector), without clip		
Pin B (Moulded connector), without clip		

 Maximum transmission length: 10m

## Harnessed bus cables | USB 2.0

\* Technical information on the cable quality:

TPE

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Harnessed bus cables, USB 2.0, to your required length					
Cable quality	Part No.	chainflex® cable	Number of cores and conductor nominal cross section	Ø	Bend radius
			[mm <sup>2</sup> ]	[mm]	[x d]

### USB type A/open cable end

Pre-harnessed at one end



TPE	USB9040001	CFBUS.065	((2xAWG28)+2xAWG20)C	5.5	12.5
TPE	USB9040201 <sup>1)</sup>	CFBUS.065	((2xAWG28)+2xAWG20)C	5.5	12.5

### USB type A/A

Pre-harnessed at both ends



TPE	USB9040010	CFBUS.065	((2xAWG28)+2xAWG20)C	5.5	12.5
TPE	USB9040210 <sup>1)</sup>	CFBUS.066	((2xAWG24)+2xAWG20)C	6.5	12.5

### USB type B/open cable end

Pre-harnessed at one end



TPE	USB9040020	CFBUS.065	((2xAWG28)+2xAWG20)C	5.5	12.5
TPE	USB9040220 <sup>1)</sup>	CFBUS.066	((2xAWG24)+2xAWG20)C	6.5	12.5

### USB type B/B

Pre-harnessed at both ends



TPE	USB9040030	CFBUS.065	((2xAWG28)+2xAWG20)C	5.5	12.5
TPE	USB9040230 <sup>1)</sup>	CFBUS.066	((2xAWG24)+2xAWG20)C	6.5	12.5

### USB type A/B

Pre-harnessed at both ends



TPE	USB9040040	CFBUS.065	((2xAWG28)+2xAWG20)C	5.5	12.5
TPE	USB9040240 <sup>1)</sup>	CFBUS.066	((2xAWG24)+2xAWG20)C	6.5	12.5

### USB type A/A (socket)

Pre-harnessed at both ends



TPE	USB9040060	CFBUS.065	((2xAWG28)+2xAWG20)C	5.5	12.5
TPE	USB9040260 <sup>1)</sup>	CFBUS.066	((2xAWG24)+2xAWG20)C	6.5	12.5

<sup>1)</sup>CFBUS.066 is delivered with heat shrink tubing over USB housing.

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

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

#### Harnessed with these connectors

USB 2.0 type A



USB 2.0 type B



USB 2.0 type A (socket)



**i** Maximum transmission length: 5m up to 10m

## Harnessed bus cables | USB 3.0

\* Technical information on the cable quality:

PVC OIL

PUR

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Harnessed bus cables, USB 3.0, in fixed lengths						
Cable quality	Part No.	chainflex® cable	Number of cores and conductor nominal cross section	Ø	Bend radius	Cable length
			[mm <sup>2</sup> ]	[mm]	[x d]	[m]

### USB 3.0 type A/open cable end

Pre-harnessed at one end



PVC, oil-res.	USB9640200	CFBUS.PVC.068	(2x(2xAWG28)+2x(2xAWG28)C)C	7.0	12.5	3
PVC, oil-res.	USB9640201	CFBUS.PVC.068	(2x(2xAWG28)+2x(2xAWG28)C)C	7.0	12.5	5
PVC, oil-res.	USB9640202	CFBUS.PVC.068	(2x(2xAWG28)+2x(2xAWG28)C)C	7.0	12.5	7
PUR	USB9540200	CFBUS.PUR.068	(2x(2xAWG28)+2x(2xAWG28)C)C	7.0	12.5	3
PUR	USB9540201	CFBUS.PUR.068	(2x(2xAWG28)+2x(2xAWG28)C)C	7.0	12.5	5
PUR	USB9540202	CFBUS.PUR.068	(2x(2xAWG28)+2x(2xAWG28)C)C	7.0	12.5	7

### USB 3.0 type A/USB 3.0 micro-B

Pre-harnessed at both ends



PVC, oil-res.	USB9640203	CFBUS.PVC.068	(2x(2xAWG28)+2x(2xAWG28)C)C	7.0	12.5	2.5
PUR	USB9540203	CFBUS.PUR.068	(2x(2xAWG28)+2x(2xAWG28)C)C	7.0	12.5	2.5

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

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

**i** Maximum transmission length: 3m  
\*igus® GmbH was able to successfully implement customer applications with excess length. Try us out!

#### Harnessed with these connectors

USB 3.0 type A



USB 3.0 type micro-B



## Harnessed bus cables | GigE

\* Technical information on the cable quality:

**PUR-ROBOT TPE**  
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Harnessed bus cables, GigE, to your required length					
Cable quality	Part No.	chainflex® cable	Number of cores and conductor nominal cross section [mm²]	Ø [mm]	Bend radius [x d]
Pre-harnessed at both ends					
TPE	GIG9040001	CFBUS.045	(4x(2x0.15))C	8.5	10
PUR-ROBOT	GIG9045001	CFROBOT8.045	4x(2x0.15)C	9.5	10
<b>RJ45 metal/RJ45 plastic</b>					
Pre-harnessed at both ends					
TPE	GIG9040002	CFBUS.045	(4x(2x0.15))C	8.5	10
PUR-ROBOT	GIG9045002	CFROBOT8.045	4x(2x0.15)C	9.5	10

**Note:** The given outer diameters are maximum values and may tend toward lower tolerance limits.  
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igus® GmbH defines cable length as entire length including connectors or open harnessing. ► Page 961

## Harnessed DVI-D/HDMI cables | DVI/HDMI

\* Technical information on the cable quality:

**TPE**  
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Harnessed DVI-D/HDMI cables, to your required length					
Cable quality	Part No.	chainflex® cable	Number of cores and conductor nominal cross section [mm²]	Ø [mm]	Bend radius [x d]
Pre-harnessed at both ends					
TPE	MAT90455657	CFBUS.070	(4x(2xAWG28)C+(2xAWG28)+3xAWG28)C	9.0	12.5
<b>DVI-D Pin/HDMI Pin</b>					
Pre-harnessed at both ends					
TPE	MAT90478691	CFBUS.070	(4x(2xAWG28)C+(2xAWG28)+3xAWG28)C	9.0	12.5
<b>HDMI Pin/HDMI Pin</b>					
Pre-harnessed at both ends					
TPE	MAT90478692	CFBUS.070	(4x(2xAWG28)C+(2xAWG28)+3xAWG28)C	9.0	12.5

**Note:** The given outer diameters are maximum values and may tend toward lower tolerance limits.  
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igus® GmbH defines cable length as entire length including connectors or open harnessing. ► Page 961

### Harnessed with these connectors

RJ45 metal



RJ45 plastic, knurled screws



**i** Maximum transmission length: 50m

### Harnessed with these connectors

DVI-D Pin



HDMI Pin



**i** Video transmission only (no audio signals)  
Maximum transmission length: 7.5m



# Harnessed coax cable | CFKoax

\* Technical information on the cable quality:

TPE





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Harnessed coax cables, CFKoax 50Ω, to your required length						
Cable quality	Part No.	chainflex® cable	Coax type	Number of cores and conductor nominal cross section [mm²]	∅ [mm]	Bend radius [x d]
<b>BNC Connector/Connector</b>						
Pre-harnessed at both ends						
TPE	MAT90455662	CFKoax2.01	RG58	1xHF50-0.9/2.95	5.5	10
<b>BNC Connector/Socket</b>						
Pre-harnessed at both ends						
TPE	MAT90455663	CFKoax2.01	RG58	1xHF50-0.9/2.95	5.5	10
<b>BNC Socket/Socket</b>						
Pre-harnessed at both ends						
TPE	MAT90455664	CFKoax2.01	RG58	1xHF50-0.9/2.95	5.5	10
<b>BNC Connector/open cable end</b>						
Pre-harnessed at one end						
TPE	MAT90455665	CFKoax2.01	RG58	1xHF50-0.9/2.95	5.5	10
<b>BNC Socket/open cable end</b>						
Pre-harnessed at one end						
TPE	MAT90455666	CFKoax2.01	RG58	1xHF50-0.9/2.95	5.5	10
<b>SMA Connector/Connector</b>						
Pre-harnessed at both ends						
TPE	MAT90455667	CFKoax2.01	RG58	1xHF50-0.9/2.95	5.5	10
<b>SMA Connector/Socket</b>						
Pre-harnessed at both ends						
TPE	MAT90455668	CFKoax2.01	RG58	1xHF50-0.9/2.95	5.5	10
<b>SMA Socket/Socket</b>						
Pre-harnessed at both ends						
TPE	MAT90455669	CFKoax2.01	RG58	1xHF50-0.9/2.95	5.5	10
<b>SMA Connector/open cable end</b>						
Pre-harnessed at one end						
TPE	MAT90455670	CFKoax2.01	RG58	1xHF50-0.9/2.95	5.5	10
<b>SMA Socket/open cable end</b>						
Pre-harnessed at one end						
TPE	MAT90455671	CFKoax2.01	RG58	1xHF50-0.9/2.95	5.5	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  
igus® GmbH defines cable length as entire length including connectors or open harnessing. ► Page 961

Harnessed coax cables, CFKoax 50Ω, to your required length						
Cable quality	Part No.	chainflex® cable	Coax type	Number of cores and conductor nominal cross section [mm²]	∅ [mm]	Bend radius [x d]
<b>BNC Connector/SMA Connector</b>						
Pre-harnessed at both ends						
TPE	MAT90478758	CFKoax2.01	RG58	1xHF50-0.9/2.95	5.5	10
<b>BNC Connector/SMA Socket</b>						
Pre-harnessed at both ends						
TPE	MAT90478759	CFKoax2.01	RG58	1xHF50-0.9/2.95	5.5	10
<b>BNC Socket/SMA Connector</b>						
Pre-harnessed at both ends						
TPE	MAT90478760	CFKoax2.01	RG58	1xHF50-0.9/2.95	5.5	10
<b>BNC Socket/SMA Socket</b>						
Pre-harnessed at both ends						
TPE	MAT90478761	CFKoax2.01	RG58	1xHF50-0.9/2.95	5.5	10

Note: The given outer diameters are maximum values and may tend toward lower tolerance limits.  
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igus® GmbH defines cable length as entire length including connectors or open harnessing. ► Page 961

Harnessed with these connectors	
BNC Connector	
BNC Socket	
SMA Connector	
SMA Socket	

 Maximum transmission length: 50m

# Harnessed coax cable | CFKoax

\* Technical information on the cable quality:

TPE





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Harnessed Coax cables, CFKoax 75Ω, to your required length						
Cable quality	Part No.	chainflex® cable	Coax type	Number of cores and conductor nominal cross section [mm²]	∅ [mm]	Bend radius [x d]
<b>BNC Connector/Socket</b>						
Pre-harnessed at both ends						
TPE	MAT90423400	CFKoax1.01	RG179	1xHF75-0.3/1.6	4.5	10
<b>BNC Connector/Connector</b>						
Pre-harnessed at both ends						
TPE	MAT90423401	CFKoax1.01	RG179	1xHF75-0.3/1.6	4.5	10
<b>BNC Socket/Socket</b>						
Pre-harnessed at both ends						
TPE	MAT90423402	CFKoax1.01	RG179	1xHF75-0.3/1.6	4.5	10
<b>BNC Connector/open cable end</b>						
Pre-harnessed at one end						
TPE	MAT90423403	CFKoax1.01	RG179	1xHF75-0.3/1.6	4.5	10
<b>BNC Socket/open cable end</b>						
Pre-harnessed at one end						
TPE	MAT90423404	CFKoax1.01	RG179	1xHF75-0.3/1.6	4.5	10
<b>BNC Connector/Socket</b>						
Pre-harnessed at both ends						
TPE	MAT90423405	CFKoax1.05	RG179	5xHF75-0.3/1.6	10.0	10
<b>BNC Connector/Connector</b>						
Pre-harnessed at both ends						
TPE	MAT90423406	CFKoax1.05	RG179	5xHF75-0.3/1.6	10.0	10
<b>BNC Socket/Socket</b>						
Pre-harnessed at both ends						
TPE	MAT90423407	CFKoax1.05	RG179	5xHF75-0.3/1.6	10.0	10
<b>BNC Connector/open cable end</b>						
Pre-harnessed at one end						
TPE	MAT90423408	CFKoax1.05	RG179	5xHF75-0.3/1.6	10.0	10
<b>BNC Socket/open cable end</b>						
Pre-harnessed at one end						
TPE	MAT90423409	CFKoax1.05	RG179	5xHF75-0.3/1.6	10.0	10

Note: The given outer diameters are maximum values and may tend toward lower tolerance limits.  
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igus® GmbH defines cable length as entire length including connectors or open harnessing. ▶ Page 961

Harnessed coax cables, CFKoax 75Ω, VGA/SUB-D, to your required length						
Cable quality	Part No.	chainflex® cable	Coax type	Number of cores and conductor nominal cross section [mm²]	∅ [mm]	Bend radius [x d]
<b>SUB-D Pin/SUB-D Pin</b>						
Pre-harnessed at both ends						
TPE	MAT90455658	CFKoax1.05	RG179	5xHF75-0.3/1.6	10.0	10
<b>SUB-D Pin/ SUB-D Socket</b>						
Pre-harnessed at both ends						
TPE	MAT90455659	CFKoax1.05	RG179	5xHF75-0.3/1.6	10.0	10
<b>SUB-D Pin/BNC Connector</b>						
Pre-harnessed at both ends						
TPE	MAT90455660	CFKoax1.05	RG179	5xHF75-0.3/1.6	10.0	10
<b>SUB-D Socket/BNC Connector</b>						
Pre-harnessed at both ends						
TPE	MAT90455661	CFKoax1.05	RG179	5xHF75-0.3/1.6	10.0	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  
igus® GmbH defines cable length as entire length including connectors or open harnessing. ▶ Page 961

Harnessed with these connectors	
BNC Connector	
BNC Socket	
SUB-D Pin	
SUB-D Socket	

 Maximum transmission length: 50m