

Camera

Video / vision / bus technology



chainflex® readycable®



Cable type	Jacket	Page
Harnessed bus cables		
 FireWire	Pre-harnessed cable TPE	458
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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]
Socket A/Socket A					
Pre-harnessed at both ends					
TPE	MAT9048160	CFBUS.055	2x(2x0.15)C+2x(0.34)C	8.0	12.5
Socket A/Pin A					
Pre-harnessed at both ends					
TPE	MAT9048621	CFBUS.055	2x(2x0.15)C+2x(0.34)C	8.0	12.5
Socket A/Socket B					
Pre-harnessed at both ends					
TPE	MAT9048623	CFBUS.055	2x(2x0.15)C+2x(0.34)C	8.0	12.5
Socket A/Pin B					
Pre-harnessed at both ends					
TPE	MAT9048625	CFBUS.055	2x(2x0.15)C+2x(0.34)C	8.0	12.5
Pin B/Pin B					
Pre-harnessed at both ends					
TPE	MAT9048627	CFBUS.055	2x(2x0.15)C+2x(0.34)C	8.0	12.5
Pin A/Pin A					
Pre-harnessed at both ends					
TPE	MAT9048620	CFBUS.055	2x(2x0.15)C+2x(0.34)C	8.0	12.5
Pin A/Socket 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 915

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]
Pin A/Pin B					
Pre-harnessed at both ends					
TPE	MAT9048624	CFBUS.055	2x(2x0.15)C+2x(0.34)C	8.0	12.5
Socket B/Socket B					
Pre-harnessed at both ends					
TPE	MAT9048626	CFBUS.055	2x(2x0.15)C+2x(0.34)C	8.0	12.5
Socket B/Pin B					
Pre-harnessed at both ends					
TPE	MAT9048628	CFBUS.055	2x(2x0.15)C+2x(0.34)C	8.0	12.5

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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		

i 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
			[mm²]	[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 ¹⁾	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 ¹⁾	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 ¹⁾	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 ¹⁾	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 ¹⁾	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 ¹⁾	CFBUS.066	((2xAWG24)+2xAWG20)C	6.5	12.5

¹⁾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.

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

igus® GmbH defines cable length as entire length including connectors or open harnessing. ▶ Page 915

Harnessed with these connectors

USB 2.0 type A



USB 2.0 type B



USB 2.0 type A (socket)



i Maximum transmission length: 5 m (CFBUS.065), 10 m (CFBUS.066)

Harnessed bus cables | USB 3.0

* Technical information on the cable quality:

PVC, oil-res. 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
			[mm²]	[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 915

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	Ø	Bend radius
RJ45 metal/RJ45 metal					
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
RJ45 metal/RJ45 plastic					
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 915

Harnessed with these connectors

RJ45 metal



RJ45 plastic, knurled screws



i Maximum transmission length: 50m

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	Ø	Bend radius
DVI-D Pin/ DVI-D Pin					
Pre-harnessed at both ends					
TPE	MAT90455657	CFBUS.070	(4x(2xAWG28)C)+(2xAWG28)+3xAWG28)C	9.0	12.5
DVI-D Pin/HDMI Pin					
Pre-harnessed at both ends					
TPE	MAT90478691	CFBUS.070	(4x(2xAWG28)C)+(2xAWG28)+3xAWG28)C	9.0	12.5
HDMI Pin/HDMI Pin					
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 915

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]	Ø [mm]	Bend radius [x d]
BNC Connector/Connector						
Pre-harnessed at both ends						
TPE	MAT90455662	CFKoax2.01	RG58	1xHF50-0.9/2.95	5.5	10
BNC Connector/Socket						
Pre-harnessed at both ends						
TPE	MAT90455663	CFKoax2.01	RG58	1xHF50-0.9/2.95	5.5	10
BNC Socket/Socket						
Pre-harnessed at both ends						
TPE	MAT90455664	CFKoax2.01	RG58	1xHF50-0.9/2.95	5.5	10
BNC Connector/open cable end						
Pre-harnessed at one end						
TPE	MAT90455665	CFKoax2.01	RG58	1xHF50-0.9/2.95	5.5	10
BNC Socket/open cable end						
Pre-harnessed at one end						
TPE	MAT90455666	CFKoax2.01	RG58	1xHF50-0.9/2.95	5.5	10
SMA Connector/Connector						
Pre-harnessed at both ends						
TPE	MAT90455667	CFKoax2.01	RG58	1xHF50-0.9/2.95	5.5	10
SMA Connector/Socket						
Pre-harnessed at both ends						
TPE	MAT90455668	CFKoax2.01	RG58	1xHF50-0.9/2.95	5.5	10
SMA Socket/Socket						
Pre-harnessed at both ends						
TPE	MAT90455669	CFKoax2.01	RG58	1xHF50-0.9/2.95	5.5	10
SMA Connector/open cable end						
Pre-harnessed at one end						
TPE	MAT90455670	CFKoax2.01	RG58	1xHF50-0.9/2.95	5.5	10
SMA Socket/open cable end						
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 915

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]	Ø [mm]	Bend radius [x d]
BNC Connector/SMA Connector						
Pre-harnessed at both ends						
TPE	MAT90478758	CFKoax2.01	RG58	1xHF50-0.9/2.95	5.5	10
BNC Connector/SMA Socket						
Pre-harnessed at both ends						
TPE	MAT90478759	CFKoax2.01	RG58	1xHF50-0.9/2.95	5.5	10
BNC Socket/SMA Connector						
Pre-harnessed at both ends						
TPE	MAT90478760	CFKoax2.01	RG58	1xHF50-0.9/2.95	5.5	10
BNC Socket/SMA Socket						
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.
G = with green-yellow earth core x = without earth core
igus® GmbH defines cable length as entire length including connectors or open harnessing. ▶ Page 915

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

i Maximum transmission length: 50m

Harnessed coax cable | CFKoax

* Technical information on the cable quality:

TPE

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Harnessed Coax cables, CFKoax 75 Ω, to your required length						
Cable quality	Part No.	chainflex® cable	Coax type	Number of cores and conductor nominal cross section [mm²]	Ø [mm]	Bend radius [x d]
BNC Connector/Socket						
Pre-harnessed at both ends						
TPE	MAT90423400	CFKoax1.01	RG179	1xHF75-0.3/1.6	4.5	10
BNC Connector/Connector						
Pre-harnessed at both ends						
TPE	MAT90423401	CFKoax1.01	RG179	1xHF75-0.3/1.6	4.5	10
BNC Socket/Socket						
Pre-harnessed at both ends						
TPE	MAT90423402	CFKoax1.01	RG179	1xHF75-0.3/1.6	4.5	10
BNC Connector/open cable end						
Pre-harnessed at one end						
TPE	MAT90423403	CFKoax1.01	RG179	1xHF75-0.3/1.6	4.5	10
BNC Socket/open cable end						
Pre-harnessed at one end						
TPE	MAT90423404	CFKoax1.01	RG179	1xHF75-0.3/1.6	4.5	10
BNC Connector/Socket						
Pre-harnessed at both ends						
TPE	MAT90423405	CFKoax1.05	RG179	5xHF75-0.3/1.6	10.0	10
BNC Connector/Connector						
Pre-harnessed at both ends						
TPE	MAT90423406	CFKoax1.05	RG179	5xHF75-0.3/1.6	10.0	10
BNC Socket/Socket						
Pre-harnessed at both ends						
TPE	MAT90423407	CFKoax1.05	RG179	5xHF75-0.3/1.6	10.0	10
BNC Connector/open cable end						
Pre-harnessed at one end						
TPE	MAT90423408	CFKoax1.05	RG179	5xHF75-0.3/1.6	10.0	10
BNC Socket/open cable end						
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.
G = with green-yellow earth core x = without earth core
igus® GmbH defines cable length as entire length including connectors or open harnessing. ▶ Page 915

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]	Ø [mm]	Bend radius [x d]
SUB-D Pin/SUB-D Pin						
Pre-harnessed at both ends						
TPE	MAT90455658	CFKoax1.05	RG179	5xHF75-0.3/1.6	10.0	10
SUB-D Pin/ SUB-D Socket						
Pre-harnessed at both ends						
TPE	MAT90455659	CFKoax1.05	RG179	5xHF75-0.3/1.6	10.0	10
SUB-D Pin/BNC Connector						
Pre-harnessed at both ends						
TPE	MAT90455660	CFKoax1.05	RG179	5xHF75-0.3/1.6	10.0	10
SUB-D Socket/BNC Connector						
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 915

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

 Maximum transmission length: 50m