Robot

Harnessed dress packs and cables for robots

chainflex® readycable®

Guarantee igus chainflex 36 up to 36 months guarantee

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

UL-verified chainflex® guarantee ... www.igus.eu/ul-verified

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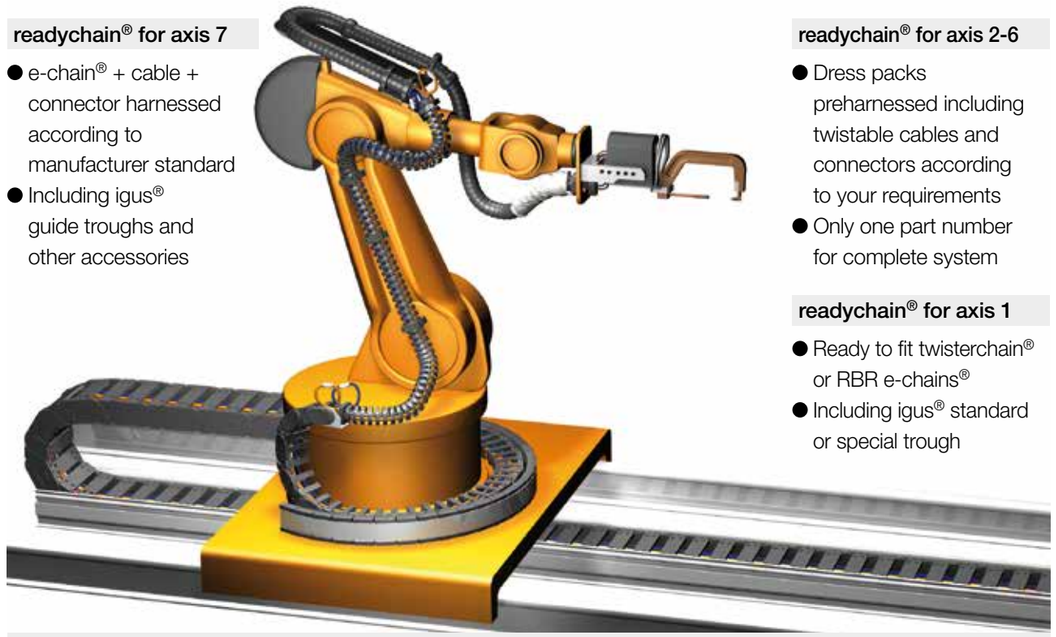
readychain® Robot

Ready-to-install harnessed e-chain systems® for robots

Assembled energy supply systems, connectors and cables from igus®. Everything from a single source. Directly from the manufacturer. Quick delivery to your robot, delivered in 1-10 days



readychain® for axis 7

- e-chain® + cable + connector harnessed according to manufacturer standard
- Including igus® guide troughs and other accessories

readychain® for axis 2-6

- Dress packs preharnessed including twistable cables and connectors according to your requirements
- Only one part number for complete system

readychain® for axis 1

- Ready to fit twisterchain® or RBR e-chains®
- Including igus® standard or special trough

Additional services for you

- Survey of existing systems on your robot by our sales engineers
- Optional system guarantee
- Worldwide readychain® specialists and 11 production sites for fast maintenance and spare part support

Moving energy made easy – even for robot applications

The modular igus® robot construction kit comprises over 5,000 different items. We can offer you the optimum, customised solution for almost any robot application. Our "Quick Robot" online tool can be used to create the ideal configuration in seconds – try it for yourself: www.igus.eu/quickrobot

All igus® robotic components are tested in our laboratory and have already been reliably used in real applications for many years. Our primary aim is to design a reliable energy supply system for your robot. We do not simply focus on mechanical protection but instead look at the entire application including the cables that have been specially developed for use on the robot. We will gladly find a solution for your application too – and look forward to receiving your enquiry.

DE06.2020

triflex® readychain® dress packs

Product range dress packs for welding robots	
Product range **Part No.**	Dress pack
Welding axis 1-3 (1 m projection/side + 1 m e-chain® for each)	
RRC.S.001	Consisting of: - 1m TRLF.85.135.0, including mounting brackets - Welding cable (2x35mm² + 1x25mm²) including multicontact TSB and TSS welding connector - Control cable (18x0.75mm² + 5x0.75mm²) including rectangular connector on both ends - Welding control cable (5x2x0.5mm²) including rectangular connector on both ends - 3x hoses - DN12 red, green, blue - including fixture at both ends
Welding axis 3-6 (1 m projection/side + 1 m e-chain® for each)	
RRC.S.002	Consisting of: - 1m TRC.85.135.0 including protectors and mounting brackets - Welding cable (2x35mm² + 1x25mm²) including multicontact TSB and TSS welding connector - Control cable (18x0.75mm² + 5x0.75mm²) including round connector and rectangular connector - Welding control cable (5x2x0.5mm²) including rectangular connector on both ends - 3x hoses - DN12 red, green, blue - including fixture at both ends

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

DE06.2020

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Harnessed cables for robots
KUKA Quantec

Harnessed cables for KUKA Quantec, to your required length

Part No.	chainflex® cable	Manufacturer description	Number of cores and conductor nominal cross section [mm²]	Ø [mm]
Motor cable (straight socket)				
				
MAT904105003	**CFSPECIAL.792.011**	X30/X30.1	(5x(2x6.0+2x2.5)+2x(6x1.0)C)C	35.5
Motor cable (angled socket)				
				
MAT904105004	**CFSPECIAL.792.011**	X30/X30.1	(5x(2x6.0+2x2.5)+2x(6x1.0)C)C	35.5
Data cable				
				
MAT904105005	**CFBUS.PUR.H01.060**	X31/X31.1	((4x0.38)C+4x1.5)C	11.5
Motor cable single axis (axis 7)				
				
MAT904105006	**CF270.UL.25.15.02.01.D**	XM.../X...	(4G2.5+(2x1.5)C)C	14.0
MAT904105007	**CF270.UL.40.15.02.01.D**	XM.../X...	(4G4.0+(2x1.5)C)C	15.0
Motor cable single axis (axis 7)				
				
MAT904105008	**CF270.UL.60.15.02.01.D**	XM.../X...	(4G6.0+(2x1.5)C)C	16.5
Control cable (axis 7)				
				
MAT904105009	**CF112.02.04.02**	Control cable single axis	(4x(2x0.25)C)C	11.0
Earth-core				
				
MAT904105010	**CFPE.160.01**	Connector plate/robot	1G16	9.5

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

EU2022

Robot
KUKA
Quantec

Direct connection cables for robots
KUKA Quantec

Direct connection cables for KUKA Quantec, to your required length

Part No.	chainflex® cable	Number of cores and conductor nominal cross section [mm²]	Ø [mm]
Motor cable (direct connection cable)			
			
MAT904141225	**CFSPECIAL.792.011**	(5x(2x6.0+2x2.5)+2x(6x1.0)C)C	35.5
Motor cable (direct connection cable)			
			
MAT904141226	**CFSPECIAL.792.011**	(5x(2x6.0+2x2.5)+2x(6x1.0)C)C	35.5
Signal cable (direct connection cable)			
			
MAT904141227	**CFBUS.PUR.H01.060**	((4x0.38)C+4x1.5)C	11.5

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

EU2022

Harnessed cables for robots
KUKA Fortec

Harnessed cables for KUKA Fortec, to your required length

Part No.	chainflex® cable	Manufacturer description	Number of cores and conductor nominal cross section [mm²]	Ø [mm]
Motor cable (angled socket)				
MAT904105011	**CFSPECIAL.792.014**	X30.1/X30.1.1	(2x(3x1.5)C+3x(3x10)+1G10)C	35.5
MAT904105012	**CFSPECIAL.792.013**	X30.4/X30.4.1	((6x1.5)C+3x(3x4)+1G6)C	28.0
Data cable				
MAT904105005	**CFBUS.PUR.H01.060**	X31/X31.1	((4x0.38)C+4x1.5)C	11.5
Motor cable single axis (axis 7)				
MAT904105006	**CF270.UL.25.15.02.01.D**	XM.../X...	(4G2.5+(2x1.5)C)C	14.0
MAT904105007	**CF270.UL.40.15.02.01.D**	XM.../X...	(4G4.0+(2x1.5)C)C	15.0
Motor cable single axis (axis 7)				
MAT904105008	**CF270.UL.60.15.02.01.D**	XM.../X...	(4G6.0+(2x1.5)C)C	16.5
Control cable (axis 7)				
MAT904105013	**CF112.02.04.02**	Control cable single axis	(4x(2x0.25)C)C	11.0
Earth-core				
MAT904105010	**CFPE.160.01**	Connector plate/robot	1G16	9.5

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Robot
KUKA
Fortec

Direct connection cables for robots
KUKA Fortec

Direct connection cables for KUKA Fortec, to your required length

Part No.	chainflex® cable	Number of cores and conductor nominal cross section [mm²]	Ø [mm]
Motor cable (direct connection cable)			
MAT904141228	**CFSPECIAL.792.014**	(2x(3x1.5)C+3x(3x10)+1G10)C	35.5
MAT904141229	**CFSPECIAL.792.013**	((6x1.5)C+3x(3x4)+1G6)C	28.0
Signal cable (direct connection cable)			
MAT904141227	**CFBUS.PUR.H01.060**	((4x0.38)C+4x1.5)C	11.5

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

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Harnessed cables for robots
KUKA Titan

Harnessed cables for KUKA Titan, to your required length

Part No.	chainflex® cable	Manufacturer description	Number of cores and conductor nominal cross section [mm²]	Ø [mm]
Motor cable (angled socket)				
MAT904105011	**CFSPECIAL.792.014**	X30.1/X30.1.1	(2x(3x1.5)C+3x(3x10)+1G10)C	35.5
MAT904105014	**CFSPECIAL.792.014**	X30.2/X30.2.1	(2x(3x1.5)C+3x(3x10)+1G10)C	35.5
MAT904105015	**CFSPECIAL.792.014**	X30.3/X30.3.1	(2x(3x1.5)C+3x(3x10)+1G10)C	35.5
Data cable				
MAT904105005	**CFBUS.PUR.H01.060**	X31/X31.1	((4x0.38)C+4x1.5)C	11.5
Motor cable single axis (axis 7)				
MAT904105006	**CF270.UL.25.15.02.01.D**	XM.../X...	(4G2.5+(2x1.5)C)C	14.0
MAT904105007	**CF270.UL.40.15.02.01.D**	XM.../X...	(4G4.0+(2x1.5)C)C	15.0
Motor cable single axis (axis 7)				
MAT904105008	**CF270.UL.60.15.02.01.D**	XM.../X...	(4G6.0+(2x1.5)C)C	16.5
Control cable (axis 7)				
MAT904105013	**CF112.02.04.02**	Control cable single axis	(4x(2x0.25)C)C	11.0
Earth-core				
MAT904105010	**CFPE.160.01**	Connector plate/robot	1G16	9.5

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

EU2022

Robot
KUKA
Titan

Direct connection cables for robots
KUKA Titan

Direct connection cables for KUKA Titan, to your required length

Part No.	chainflex® cable	Number of cores and conductor nominal cross section [mm²]	Ø [mm]
Motor cable (direct connection cable)			
MAT904141228	**CFSPECIAL.792.014**	(2x(3x1.5)C+3x(3x10)+1G10)C	35.5
MAT904141230	**CFSPECIAL.792.014**	(2x(3x1.5)C+3x(3x10)+1G10)C	35.5
MAT904141231	**CFSPECIAL.792.014**	(2x(3x1.5)C+3x(3x10)+1G10)C	35.5
Signal cable (direct connection cable)			
MAT904141227	**CFBUS.PUR.H01.060**	((4x0.38)C+4x1.5)C	11.5

Note: The given outer diameters are maximum values and may tend toward lower tolerance limits.
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Harnessed cables for robots
Fanuc M-900iB

Harnessed cables for Fanuc M-900iB, to your required length

Part No.	chainflex® cable	Manufacturer description	Number of cores and conductor nominal cross section [mm²]	Ø [mm]
Motor cable (Extension cable axis 7)				
MAT904117141	**CFSPECIAL.792.015**	RM1.2	(7x(6x2.0))C	36.5
Motor cable (Extension cable axis 7)				
MAT904117142	**CFSPECIAL.792.015**	RM2.2	(7x(6x2.0))C	36.5
Pulse encoder (Extension cable axis 7)				
MAT904117143	**CFSPECIAL.792.016**	RP1.2	(5x(4x0.25)+10x(3x0.75))C	26.5
Earth-core (Extension cable axis 7)				
MAT904117144	**CFPE.160.01**	Earth-core	1G16	9.5
Earth-core (Extension cable axis 7)				
MAT904117145	**CFPE.60.01**	Earth-core	1G6.0	7.0
Motor cable single axis (axis 7)				
MAT904117146	**CF270.UL.60.15.02.01.D**	RM7.2	(4G6.0+(2x1.5)C)C	16.5
Pulse encoder single axis (axis 7)				
MAT904117147	**CF240.PUR.03.03**	RP7.2	(3x0.34)C	5.0

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

Direct connection cables for robots
Fanuc M-900iB

Robot
Fanuc
M-900iB

Direct connection cables for Fanuc M-900iB, to your required length

Part No.	chainflex® cable	Number of cores and conductor nominal cross section [mm²]	Ø [mm]
Motor cable (direct connection cable)			
MAT904141222	**CFSPECIAL.792.015**	(7x(6x2.0))C	36.5
MAT904141223	**CFSPECIAL.792.015**	(7x(6x2.0))C	36.5
Pulse encoder (direct connection cable)			
MAT904141224	**CFSPECIAL.792.016**	(5x(4x0.25)+10x(3x0.75))C	26.5

Note: The given outer diameters are maximum values and may tend toward lower tolerance limits.
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Harnessed cables for robots
Fanuc R-2000iC

Harnessed cables for Fanuc R-2000iC, to your required length

Part No.	chainflex® cable	Manufacturer description	Number of cores and conductor nominal cross section [mm²]	Ø [mm]
Motor cable (Extension cable axis 7)				
MAT904117141	**CFSPECIAL.792.015**	RM1.2	(7x(6x2.0))C	36.5
Pulse encoder (Extension cable axis 7)				
MAT904117143	**CFSPECIAL.792.016**	RP1.2	(5x(4x0.25)+10x(3x0.75))C	26.5
Earth-core (Extension cable axis 7)				
MAT904117144	**CFPE.160.01**	Earth-core	1G16	9.5
Earth-core (Extension cable axis 7)				
MAT904117145	**CFPE.60.01**	Earth-core	1G6.0	7.0
Motor cable single axis (axis 7)				
MAT904117146	**CF270.UL.60.15.02.01.D**	RM7.2	(4G6.0+(2x1.5)C)C	16.5
Pulse encoder single axis (axis 7)				
MAT904117147	**CF240.PUR.03.03**	RP7.2	(3x0.34)C	5.0

Note: The given outer diameters are maximum values and may tend toward lower tolerance limits.
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Robot
Fanuc
R-2000iC

Direct connection cables for robots
Fanuc R-2000iC

Direct connection cables for Fanuc R-2000iC, to your required length

Part No.	chainflex® cable	Number of cores and conductor nominal cross section [mm²]	Ø [mm]
Motor cable (direct connection cable)			
MAT904141222	**CFSPECIAL.792.015**	(7x(6x2.0))C	36.5
Pulse encoder (direct connection cable)			
MAT904141224	**CFSPECIAL.792.016**	(5x(4x0.25)+10x(3x0.75))C	26.5

Note: The given outer diameters are maximum values and may tend toward lower tolerance limits.
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Harnessed cables for robots
ABB IRB 6620, IRB 6640, IRB 6650S, IRB 7600

Harnessed cables for ABB IRB 6620, IRB 6640, IRB 6650S, IRB 7600, to your desired length

Part No.	chainflex® cable	Manufacturer description	Number of cores and conductor nominal cross section [mm²]	Ø [mm]
Power cable				
MAT904128539	CFSPECIAL.792.012	R1MP	(18G2.5)C	25.5
Signal cable				
MAT904128540	CF211.PUR.02.06.02	R1.SMB	(6x(2x0.25))C	9.0
Power cable				
MAT904128547	CF270.UL.40.15.02.02.D		(4G4.0+2x(2x1.5)C)C	17.0
Resolver cable				
MAT904128548	CF211.PUR.02.03.02		(3x(2x0.25))C	7.0
Earth-core (Extension cable axis 7)				
MAT904117144	CFPE.160.01	Earth-core	1G16	9.5

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

Direct connection cables for robots
ABB IRB 6620, IRB 6640, IRB 6650S, IRB 7600

Direct connection cable for ABB IRB 6620, IRB 6640, IRB 6650S, IRB 7600, to your required length

Part No.	chainflex® cable	Number of cores and conductor nominal cross section [mm²]	Ø [mm]
Motor cable (direct connection cable)			
MAT904141219	CFSPECIAL.792.012	(18G2.5)C	25.5
Signal cable (direct connection cable)			
MAT904141220	CF211.PUR.02.06.02	(6x(2x0.25))C	9.0

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Harnessed cables for robots
ABB IRB 6700

Harnessed cables for ABB IRB 6700, to your desired length				
Part No.	**chainflex® cable**	Manufacturer description	Number of cores and conductor nominal cross section [mm²]	Ø [mm]
Power cable				
MAT904128539	**CFSPECIAL.792.012**	R1MP	(18G2.5)C	25.5
Signal cable				
MAT904128541	**CF211.PUR.02.06.02**	R1.SMB	(6x(2x0.25))C	9.0
Power cable				
MAT904128547	**CF270.UL.40.15.02.02.D**		(4G4.0+2x(2x1.5)C)C	17.0
Resolver cable				
MAT904128548	**CF211.PUR.02.03.02**		(3x(2x0.25))C	7.0
Earth-core (Extension cable axis 7)				
MAT904117144	**CFPE.160.01**	Earth-core	1G16	9.5

Note: The given outer diameters are maximum values and may tend toward lower tolerance limits.
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Robot
ABB IRB
6700

Direct connection cables for robots
ABB IRB 6700

Direct connection cable for ABB IRB 6700, to your required length				
Part No.	**chainflex® cable**		Number of cores and conductor nominal cross section [mm²]	Ø [mm]
Motor cable (direct connection cable)				
MAT904141219	**CFSPECIAL.792.012**		(18G2.5)C	25.5
Signal cable (direct connection cable)				
MAT904141221	**CF211.PUR.02.06.02**		(6x(2x0.25))C	9.0

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

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Harnessed cables for robots
ABB IRB 8700

Harnessed cables for ABB IRB 8700, to your desired length				
Part No.	**chainflex® cable**	Manufacturer description	Number of cores and conductor nominal cross section [mm²]	Ø [mm]
Power cable				
MAT904128542	**CFSPECIAL.792.012**	R1MP-A	(18G2.5)C	25.5
MAT904128543	**CFSPECIAL.792.012**	R1MP-B	(18G2.5)C	25.5
Signal cable				
MAT904128541	**CF211.PUR.02.06.02**	R1.SMB	(6x(2x0.25))C	9.0
Power cable				
MAT904128547	**CF270.UL.40.15.02.02.D**		(4G4.0+2x(2x1.5)C)C	17.0
Resolver cable				
MAT904128548	**CF211.PUR.02.03.02**		(3x(2x0.25))C	7.0
Earth-core (Extension cable axis 7)				
MAT904117144	**CFPE.160.01**	Earth-core	1G16	9.5

Note: The given outer diameters are maximum values and may tend toward lower tolerance limits.
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Robot
ABB IRB
8700

Direct connection cables for robots
ABB IRB 8700

Direct connection cable for ABB IRB 8700, to your required length				
Part No.	**chainflex® cable**		Number of cores and conductor nominal cross section [mm²]	Ø [mm]
Motor cable (direct connection cable)				
MAT904145759	**CFSPECIAL.792.012**		(18G2.5)C	25.5
MAT904145760	**CFSPECIAL.792.012**		(18G2.5)C	25.5
Signal cable (direct connection cable)				
MAT904141221	**CF211.PUR.02.06.02**		(6x(2x0.25))C	9.0

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Cables according to AIDA specifications*

* AIDA = **A**utomatisierungs**I**nitiative **D**eutscher **A**utomobilhersteller (Automation Initiative of German Domestic Automobile manufacturers)

Technical information on cable quality:

CFBUS.PUR	CFLK	CF77.UL.D	CF211.PUR
from page 192	from page 212	from page 100	from page 150

Harnessed cables according to AIDA specifications, to your required length

Part No.	Robot axis	chainflex® cable	Number of cores and conductor nominal cross section [mm²]	Ø [mm]
AIDA Profinet – RJ45 Pin/ AIDA Profinet – RJ45 Pin				
MAT904117091	Axis 7	CFBUS.PUR.060	(4x0.38)C	7.0
MAT904117095	Axis 1-6	CFROBOT8.060	(2x(2x0.34))C	8.5
AIDA Profinet FOC/ AIDA Profinet FOC				
MAT904117092	Axis 7	CFLK.L1.02	1x980/1,000µm	7.0
upon request [1]	Axis 1-6	CFLK.L1.02	1x980/1,000µm	7.0
AIDA Power Pin/ AIDA Power Pin				
MAT904117093	Axis 7	CF77.UL.25.05.D	5G2.5	10.5
MAT904117097	Axis 1-6	CF77.UL.25.05.D	5G2.5	10.5
AIDA Signal Pin/ AIDA Signal Pin				
MAT904117094	Axis 7	CF211.PUR.05.05.02	(5x(2x0.5))C	10.5
MAT904117098	Axis 1-6	CFROBOT3.05.05.02	(5x(2x0.5))C	12.5

[1] **Offer made only after technical clarification of the application**
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

Robot AIDA

Cables according to AIDA specifications*

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Technical information on cable quality:

CFBUS.PUR	CFLK	CF77.UL.D	CF211.PUR
from page 192	from page 212	from page 100	from page 150

New

Harnessed extension cables according to AIDA specifications, to your required length

Part No.	Robot axis	chainflex® cable	Number of cores and conductor nominal cross section [mm²]	Ø [mm]
AIDA Profinet – RJ45 Socket/ AIDA Profinet – RJ45 Pin				
MAT904152118	Axis 7	CFBUS.PUR.060	(4x0.38)C	7.0
MAT904152121	Axis 1-6	CFROBOT8.060	(2x(2x0.34))C	8.5
AIDA Profinet – RJ45 Socket/ AIDA Profinet – RJ45 Socket				
MAT904151684	Axis 7	CFBUS.PUR.060	(4x0.38)C	7.0
MAT904151687	Axis 1-6	CFROBOT8.060	(2x(2x0.34))C	8.5
AIDA Power Socket/ AIDA Power Pin				
MAT904152119	Axis 7	CF77.UL.25.05.D	5G2.5	10.0
MAT904152122	Axis 1-6	CF77.UL.25.05.D	5G2.5	10.0
AIDA Power Socket/ AIDA Power Socket				
MAT904151685	Axis 7	CF77.UL.25.05.D	5G2.5	10.0
MAT904151688	Axis 1-6	CF77.UL.25.05.D	5G2.5	10.0
AIDA Signal Socket/ AIDA Signal Pin				
MAT904152120	Axis 7	CF211.PUR.05.05.02	5x(2x0.5))C	11.0
MAT904152123	Axis 1-6	CFROBOT3.05.05.02	5x(2x0.5))C	11.0
AIDA Signal Socket/ AIDA Signal Socket				
MAT904151686	Axis 7	CF211.PUR.05.05.02	5x(2x0.5))C	11.0
MAT904151689	Axis 1-6	CFROBOT3.05.05.02	5x(2x0.5))C	11.0

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

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