Connection cable M23 12--pin plug - M23 12--pin connector

Controller:
iMC-S8



Motor module:
M23-12--pin

Item-No. 392750 xxxx

M23 12--pin plug (Controller)		**Drag chain cable**	**M23 12--pin connector (Motor)**	
1	Motor phase 1A	brown	1	Motor phase 1A
2	Motor phase 1B	white	2	Motor phase 1B
3	Motor phase 2A	yellow	3	Motor phase 2A
4	Motor phase 2B	green	4	Motor phase 2B
5	+24V switch	red	5	+24V switch
6	+24V brake	violet	6	+24V brake
7	GND switch	blue	7	GND switch
8	GND brake	black	8	GND brake
9	Limit switch 1 (Ref.)	grey/-pink	9	Limit switch 1 (Ref.)
10	Limit switch 2	brown/green	10	Limit switch 2
	Housing – cable shield	Screen outside + inside		Housing – cable shield

Connection cable SubD9--pin plug – M23 12--pin connector

Controller:
iT116Flash/Mini
iMC-M/P
IT116 G



Motor module:
M23-12--pin

Item-No. 392755 xxxx

SubD9--pin plug (Controller)		**Drag chain cable**	**M23 12--pin connector (Motor)**	
1	Motor phase 1A	blue	1	Motor phase 1A
2	Motor phase 1B	white	2	Motor phase 1B
3	Motor phase 2A	brown/green	3	Motor phase 2A
4	Motor phase 2B	white/green	4	Motor phase 2B
5	+24V	-pink	5	+24V
6	+ brake	red	6	+ brake
7	Limit switch 2	yellow	10	Limit switch 2
8	GND	black	7+8	GND
9	Limit switch 1 (Ref.)	grey	9	Limit switch 1 (Ref.)
	Housing	Screen		Housing

Connection cable Amphenol 15-pin Plug - M23 12-pin Connector

Controller:
C142-4
C16-3
IT142



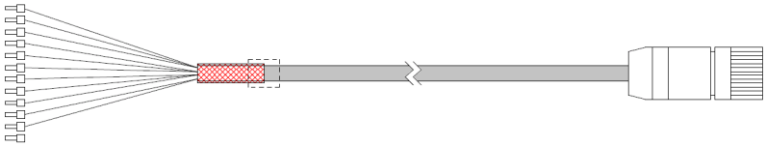
Motor module:
M23-12-pin

Item-No. 392754 xxxx

Amp. 12-pin Plug (Controller)		**Drag chain cable**	**M23 12-pin Connector (Motor)**	
1	Motor phase 2B	green	4	Motor phase 2B
2	Motor phase 2A	yellow	3	Motor phase 2A
3	Motor phase 1B	white	2	Motor phase 1B
SL	Motor phase 1A	brown	1	Motor phase 1A
4	+24V Brake	violet	6	+24V Brake
5	+24V Switch	red	5	+24V Switch
6	GND BRAKE	black	8	GND Brake
7	PE, Brake	Screen outside + inside		Housing
8	GND Switch	blue	7	GND Switch
9	Limit switch 1 (Ref.)	grey/-pink	9	Limit switch 1 (Ref.)
11	Limit switch 2 (not used)	brown/green	10	Limit switch 2 (not used)

Connection cable Ferrules - M23 12-pin Connector

Schaltschrank/ Steuerung



Motor module: *M23-12-pin*

Item-No. 392762 xxxx

Wire signal	Drag chain cable	M23 12-pin Connector (Motor)
Motor phase 1A	brown	1 Motor phase 1A
Motor phase 1B	white	2 Motor phase 1B
Motor phase 2A	yellow	3 Motor phase 2A
Motor phase 2B	green	4 Motor phase 2B
+24V Switch	red	5 +24V Switch
+24V Brake	violet	6 +24V Brake
GND Switch	blue	7 GND Switch
GND Brake	black	8 GND Brake
Limit switch 1 (Ref.)	grey/-pink	9 Limit switch 1(Ref.)
Limit switch 2	brown/green	10 Limit switch 2
Housing - Cablescreen	Screen outside+inside	Housing - Cablescreen

Connection cable M23 12-pin Plug - SubD9-pin Connector

Controller: *iMC-S8*



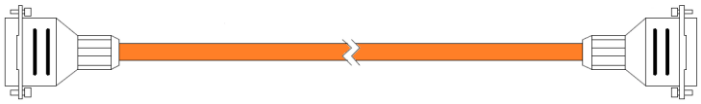
Motor module: *SubD9-pin*

Item-No. 392752 xxxx

M23 12-pin Plug (Controller)	Drag chain cable	SubD9-pin Connector (Motor)
1 Motor phase 1A	white/green	4 Motor phase 1A
2 Motor phase 1B	brown/green	3 Motor phase 1B
3 Motor phase 2A	white	2 Motor phase 2A
4 Motor phase 2B	blue	1 Motor phase 2B
5 +24V Switch	-pink	5 +24V Switch
6 +24 V Brake	red	6 +24V Brake
7+8 GND Brake, Switch	black	8 GND Brake, Switch
9 Limit switch 1 (Ref.)	grey	9 Limit switch 1 (Ref.)
10 Limit switch 2	yellow	7 Limit switch 2
Housing - Cablescreen	Cablescreen	Housing - Cablescreen

Connection cable SubD9-pin Plug – SubD9-pin Connector

Controller:
iT116 Flash
iT116 Mini
iMC-M/P
IMC4, IML4



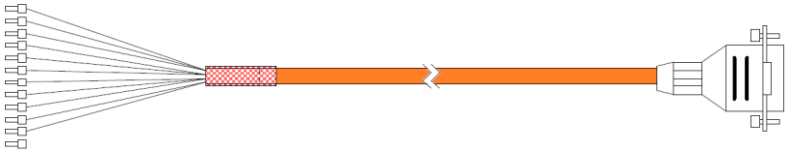
Motor module: *SubD9-pin*

Item-No. 392781 xxxx

SubD9-pin Plug (Controller)	Drag chain cable	SubD9-pin Connector (Motor)
1 Motor phase 2B	blue	1 Motor phase 2B
2 Motor phase 2A	white	2 Motor phase 2A
3 Motor phase 1B	brown/green	3 Motor phase 1B
4 Motor phase 1A	white/green	4 Motor phase 1A
5 +24V Switch	-pink	5 +24V Switch
6 + Brake	red	6 + Brake
7 Limit switch 2	black	7 Limit switch 2
8 GND Brake, Switch	violet	8 GND Brake, Switch
9 Limit switch 1 (Ref.)	grey	9 Limit switch 1 (Ref.)
Housing	Screen	Housing

Connection cable Ferrules - SubD9-pin Connector

Schaltschrank/ Steuerung



Motor module: *SubD9-pin*

Item-No. 392749 xxxx

Wire signal	Drag chain cable	SubD9-pin Connector (Motor)
Motor phase 2B	blue	1 Motor phase 2B
Motor phase 2A	white	2 Motor phase 2A
Motor phase 1B	brown/green	3 Motor phase 1B
Motor phase 1A	white/green	4 Motor phase 1A
+24V Switch	-pink	5 +24V Switch
+24V Brake	red	6 +24V Brake
Limit switch 2	black	7 Limit switch 2
GND Brake, Switch	violet	8 GND Brake, Switch
Limit switch 1 (Ref.)	grey	9 Limit switch 1 (Ref.)
Cablescreen	Screen	Housing

Connection cable Amphenol 15-pin Plug - SubD9-pin Connector

Controller:
C142-4
C16-3
IT142



Motor module: *SubD9-pol*

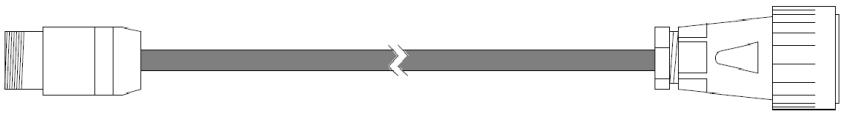
Item-No. 392711, 392710 xxxx

Amp. 12-pin Plug (Controller)	Drag chain cable	SubD9-pin Connector (Motor)
1 Motor phase 2B	blue	1 Motor phase 2B
2 Motor phase 2A	white	2 Motor phase 2A
3 Motor phase 1B	brown / green	3 Motor phase 1B
SL Motor phase 1A	white / green	4 Motor phase 1A
4 +24V Brake	red	5 +24V Brake
5 +24V Switch	-pink	6 +24V Switch
6 GND Brake	black	7 GND Brake, Switch
7 PE, Screen	Screen	Screen, Housing
8* GND Switch	violet	8 GND Switch
9 Limit switch 1 (Ref.)	Grey	9 Limit switch 1 (Ref.)

* In older motor modules, this contact is missing Sub-D9 -pin side, since 2005.

Connection cable M23 12-pin Plug - Amphenol 15-pin Connector

Controller:
iMC-S8



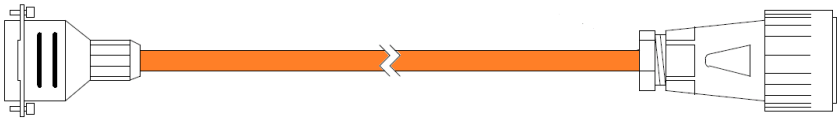
Motor module: *Amphenol*

Item-No. 392751 xxxx

M23 12-pin Plug (Controller)	Drag chain cable	Amph. 12-pin Connector (Motor)
1 Motor phase 1A	brown	SL Motor phase 1A
2 Motor phase 1B	white	3 Motor phase 1B
3 Motor phase 2A	yellow	2 Motor phase 2A
4 Motor phase 2B	green	1 Motor phase 2B
5 +24V Switch	red	5 +24V Switch
6 +24V Brake	violet	4 +24V Brake
7 GND Switch	blue	8 GND Switch
8 GND Brake	black	6 GND Brake
9 Limit switch 1 (Ref.)	grey/-pink	9 Limit switch 1 (Ref.)
10 Limit switch 2	white/green	10 Limit switch 2
Housing - Screen	PE, Cablescreen	7 Housing - Screen

Connection cable SubD9-pin Plug – Amphenol 15-pin Connector

Controller:
iT116 Flash
iT116 Mini
iMC-M/P



Motor module:
Amphenol

Item-No. 392102 xxxx

SubD9-pin Plug (Controller)		Drag chain cable	Amph. 12-pin Connector (Motor)	
1	Motor phase 2B	blue	1	Motor phase 1A
2	Motor phase 2A	white	2	Motor phase 1B
3	Motor phase 1B	brown/green	3	Motor phase 2A
4	Motor phase 1A	white/green	SL	Motor phase 2B
5	+24V Switch	-pink	5	+24V Switch
6	+ Brake	red	4	+ Brake
7	Limit switch 2	Yellow	10	Limit switch 2
8	GND Brake, Switch	black	6+8	GND Brake, Switch
9	Limit switch 1 (Ref.)	grey	9	Limit switch 1 (Ref.)
	Housing	Screen	7	PE

Connection cable Amphenol 12-pin Plug – Amphenol 12-pin Connector

Controller:
C142-4
C16-3
IT142



Motor module:
Amphenol

Item-No. 392713 xxxx

Amph. 12-pin Plug (Controller)		Drag chain cable	Amph. 12-pin Connector (Motor)	
1	Phase 2B	green	1	Phase 2B
2	Phase 2A	yellow	2	Phase 2A
3	Phase 1B	white	3	Phase 1B
SL	Phase 1A	brown	SL	Phase 1A
4	+ 24 Volt Brake	violet	4	+ 24 Volt Brake
5	+ 24 Volt Switch	red	5	+ 24 Volt Switch
6	GND Brake	black	6	GND Brake
7	PE, Screen	Screen outside+inside	7	PE, Screen
8	GND Switch	blue	8	GND Switch
9	Limit switch 1 (Ref.)	grey/-pink	9	Limit switch 1 (Ref.)
10	Limit switch 2	white/green	10	Limit switch 2

Connection cable Ferrules – Amphenol 15-pin Connector

cabinet/ control



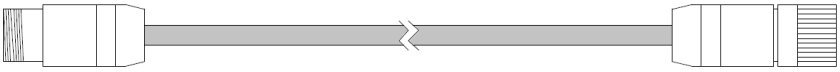
Motor module:
Amphenol

Item-No. 392748 xxxx

Wire signal	Drag chain cable	Amph. 12-pin Connector (Motor)	
Phase 2B	green	1	Phase 2B
Phase 2A	yellow	2	Phase 2A
Phase 1B	white	3	Phase 1B
Phase 1A	brown	SL	Phase 1A
+ 24 Volt Brake	violet	4	+ 24 Volt Brake
+ 24 Volt Switch	red	5	+ 24 Volt Switch
GND Brake	black	6	GND Brake
PE, Screen	Screen outside+inside	7	PE, Screen
GND Switch	blue	8	GND Switch
Limit switch 1 (Ref.)	grey/-pink	9	Limit switch 1 (Ref.)
Limit switch 2	white/green	10	Limit switch 2

Motor connection M23 9-pin (8+1) Plug – M23 9-pin (8+1) Connector

Controller:
iMC-DC / EC
iPU-DC / EC



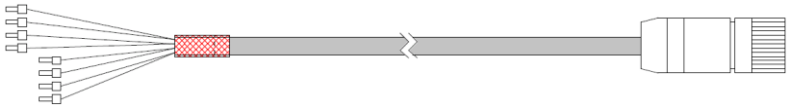
Item-No. 392759 xxxx

Motor module:
M23 9-pin for DC/EC 48V

M23 9-pin Plug (Controller)		Drag chain cable / Description	M23 9-pin Connector (Motor)	
1	Motor phase 1 (U+) / U	1	1	Motor phase 1 (U+) / U
2	Motor phase 2 (U-) / V	2	2	Motor phase 2 (U-) / V
3	Motor phase 1 (U+) / W	3	3	Motor phase 1 (U+) / W
4	Motor phase 2 (U-) / --	4	4	Motor phase 2 (U-) / --
5	+24V Brake	5	5	+24V Brake
6	GND Brake	6	6	GND Brake
7	--	n.c.	7	--
8	--	n.c.	8	--
9	PE	green/yellow	9	PE
	Housing	Screen		Housing

Motor connection Ferrules – M23 9-pin (8+1) Connector

Cabinet / control



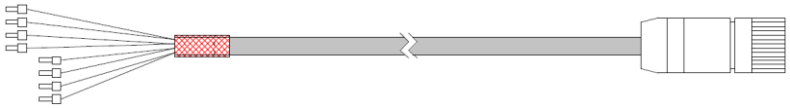
Item-No. 392760 xxxx

Motor module:
M23 9-pin for DC/EC 48V

Wire description	Drag chain cable	M23 9-pin Connector (Motor)	
1	1	1	Motor phase 1 (U+) / U
2	2	2	Motor phase 2 (U-) / V
3	3	3	Motor phase 1 (U+) / W
4	4	4	Motor phase 2 (U-) / --
5	5	5	+24V Brake
6	6	6	GND Brake
n.c.	n.c.	7	--
n.c.	n.c.	8	--
green/yellow	green/yellow	9	PE
Screen	Screen		Housing

Ferrules – M23 8-pin (4+3+1) Connector

Cabinet / control



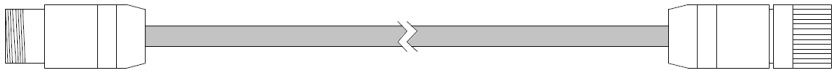
Item-No. 392305 xxxx (4 x 1,5mm² + 2x(2 x 0,75mm²))
Item-No. 392306 xxxx (4 x 0,75mm² + 2x(2 x 0,34mm²))

Motor module:
M23 8-pin for EC 310V,
HSA-spindels,
Direct drives

Wire description	Drag chain cable	M23 9-pin Connector (Motor)			
		-pin	EC Servo 310V	HSA-spindles	Direct drives
1 / U1	1 / U1	1		Motor phase U	
2 / V2	2 / V2	4		Motor phase V	
3 / W2	3 / W3	3		Motor phase W	
PE	green/yellow	PE		PE	
5	5 / brown	A		+24V Brake	
6	6 / white	B		GND Brake	
7	7 / green	C	n.v.	Ventilator 230 V - L	+ Temp.monitoring
8	8 / yellow	D	n.v.	Ventilator 230 V - N	- Temp.monitoring
Screen	Screen			Housing	

Motor connection M23 8-pin (4+3+1) Plug – M23 8-pin (4+3+1) Connector

Controller:
MC1-40



Item-No. 392307 xxxx

Motor module:
M23 8-pin for EC 310V,
iLD-Axis

M23 8-pin Plug (Controller)			Drag chain cable	M23 8-pin Connector (Motor)		
-pin	EC Servo 310V	iLD		-pin	EC Servo 310V	iLD
1	Motor phase U		1 / U1	1	Motor phase U	
4	Motor phase V		2 / V2	4	Motor phase V	
3	Motor phase W		3 / W3	3	Motor phase W	
PE	PE		green/yellow	PE	PE	
A	+24V Brake		5 / brown	A	+24V Brake	
B	GND Brake		6 / white	B	GND Brake	
C	n.v.	+ Temp.monitoring	7 / green	C	n.v.	+ Temp.monitoring
D	n.v.	- Temp.monitoring	8 / yellow	D	n.v.	- Temp.monitoring
Housing			Screen	Housing		

Motor connection M23 9-pin (8+1) Plug / SubD-15 pol. Plug - Amphenol 15-pin Connector

Controller:
iMC-DC
iPU-DC



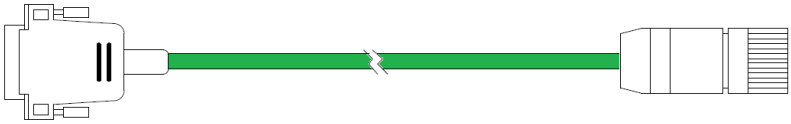
Motor module:
Amphenol DC Motors

Item-No. 392722 xxxx

Controller			**Drag chain cable**	**Motor**	
-pin	**SubD-15-pin**	**M23-9-pin**		**-pin**	**Amphenol Connector**
1	n.v.		violet	4	+24V Brake
2	+5V Encoder		red	8	+5V Encoder
3	Encoder track /Z		-pink		n.v.
4	Encoder track /B		yellow	11	Encoder track /B
5	Encoder track /A		brown	10	Encoder track /A
6	+24V Switch		red/blue	14	+24V Switch
7	GND Switch		white/ green	3	GND Switch
8	n.v.		white/yellow		n.v.
9	n.v.		black	6	GND Brake
10	GND Encoder		blue	5	GND Encoder
11	Encoder track Z		grey		n.v.
12	Encoder track B		green	13	Encoder track B
13	Encoder track A		white	12	Encoder track A
14	Limit switch 1		grey/-pink	9	Limit switch 1
15	Limit switch 2		brown/green	7	Limit switch 2
G	Screen		Screen	Screen	Loop
1		Motor phase 1 (U+)	white	1	Motor phase 1 (U+)
2		Motor phase 2 (U-)	brown	2	Motor phase 2 (U-)
3		Motor phase 1 (U+)	yellow	1	Motor phase 1 (U+)
4		Motor phase 2 (U-)	green	2	Motor phase 2 (U-)
5		+24V Brake			
6		GND Brake			
G		Screen	Screen	SL	Loop

Encoder cable SubD15-pin Plug – M23 17-pin Connector

Controller:
MC1-40



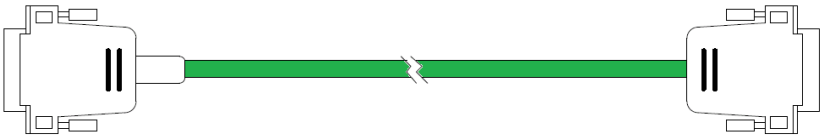
Motor connection:
iLD

Item-No. 392325 xxxx

SubD15-pin Plug (Controller)		Drag chain cable / Descript.	M23 17-pin Connector(Motor)	
-pin			-pin	
13	Encoder track A	black	1	Encoder track A
5	Encoder track /A	brown	2	Encoder track /A
11	Encoder track Z	red	3	Encoder track Z
1	Hall Signal A	green/black	4	Hall Signal A
9	Hall Signal B	green/red	5	Hall Signal B
14	Hall Signal C	brown/yellow	6	Hall Signal C
10	GND Encoder	brown/blue	7	GND Encoder
10	GND Hall	brown/yellow	8	GND Hall
2	+5V Hall	brown/red	9	+5V Hall
2	+5V Encoder		10	+5V Encoder
12	Encoder track B	green	11	Encoder track B
4	Encoder track /B	yellow	12	Encoder track /B
3	Encoder track /Z	orange	13	Encoder track /Z
6	2x +24V Switch	grey	14	2x +24V Switch
8	2x GND Switch	blue	15	2x GND Switch
7	Limit switch 1 (Ref.)	white/black	16	Limit switch 1 (Ref.)
15	Limit switch 2	White/yellow	17	Limit switch 2

Encoder cable SubD15-pin Plug – SubD15-pin Connector

Controller:
iMC-DC / EC
iPU-DC / EC
cabinet



Motor module:
SubD15-pin for
DC/EC 48V
EC 310V

Item-No. 392740 xxxx

SubD15-pin Plug (Controller)			Drag chain cable / Descript.	SubD15-pin Connector(Motor)		
-pin	DC	EC		-pin	DC	EC
1	--	Hall Signal A	violet	1	--	Hall Signal A
2	+5V Encoder	+5V Enc./Hall	red	2	+5V Encoder	+5V Enc./Hall
3	Encoder track /Z		-pink	3	Encoder track /Z	
4	Encoder track /B		yellow	4	Encoder track /B	
5	Encoder track /A		brown	5	Encoder track /A	
6	+24V Switch		red/blue	6	+24V Switch	
7	Limit switch 1 (Ref.)		white/green	7	Limit switch 1 (Ref.)	
8	GND Switch		yellow/brown	8	GND Switch	
9	--	Hall Signal B	black	9	--	Hall Signal B
10	GND Encoder		blue	10	GND Encoder	
11	Encoder track Z		grey	11	Encoder track Z	
12	Encoder track B		green	12	Encoder track B	
13	Encoder track A		white	13	Encoder track A	
14	--	Hall Signal C	grey/-pink	14	--	Hall Signal C
15	Limit switch 2		brown/green	15	Limit switch 2	
	Housing		Screen		Housing	