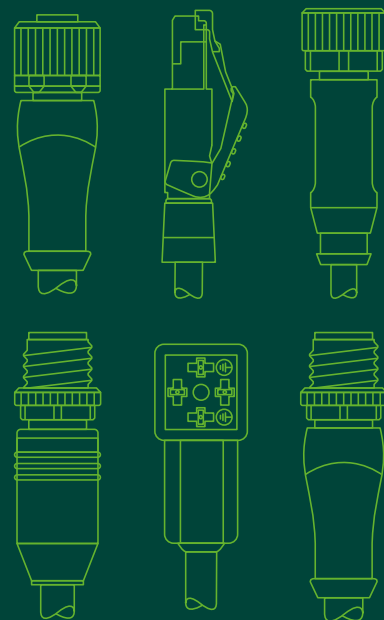


ESSENTIALS

**CONNECTIVITY
ESSENTIALS**
BY MURRELEKTRONIK



**MURR
ELEKTRONIK**
stay connected

CONNECTIVITY ESSENTIALS

With Connectivity Essentials, Murrelektronik offers a new, wide ranging connector installation program. The M8, M12, valve and RJ45 connectors for the data, signal and power range are immediately available and form the backbone of all machine/plant cabling.

OUR QUALITY PROMISE

- 100 % tested
- 100 % compliant with international IEC standards
- Vibration protection prevents even under the strongest shock and vibration influence loosening of the screw connection and guarantees a permanently tight connection
- Gold-plated contacts guarantee low contact resistance and high mating cycles

PRODUCT RANGE

Add the cable length to the **yyyy**. See below.*

Standard – 7 0 0 0
US Program – 7 7 0 0

0 8 0 0 1
Design

6 3 0
Cable type

0 1 5 0
Cable length (in cm)

*Example

Cable length (in cm) 0.3 m = 0030, 0.6 m = 0060, 1 m = 0100, 1.5 m = 0150, 2 m = 0200, 3 m = 0300, 5 m = 0500, 10 m = 1000



Scan here for more
information about our
Connectivity Essentials



SIGNAL



M8 Connector – single ended

Side 1	Side 2	Material (Option 1)	Art.-No.	Material (Option 2)	Art.-No.	Cable lengths (yyyy)
M8 male 0°	–	PVC 3 x 0.25 bk UL/CSA	7000-08001-610yyyy	PUR 3 x 0.25 bk UL/CSA+drag ch.	7000-08001-630yyyy	3 m, 5 m, 10 m
M8 female 0°	–	PVC 3 x 0.25 bk UL/CSA	7000-08041-610yyyy	PUR 3 x 0.25 bk UL/CSA+drag ch.	7000-08041-630yyyy	
M8 female 90°	–	PVC 3 x 0.25 bk UL/CSA	7000-08081-610yyyy	PUR 3 x 0.25 bk UL/CSA+drag ch.	7000-08081-630yyyy	
M8 female 0°	–	PVC 4 x 0.25 bk UL/CSA	7000-08061-611yyyy	PUR 4 x 0.25 bk UL/CSA+drag ch.	7000-08061-631yyyy	

M8 Connector – double ended

Side 1	Side 2	Material	Art.-No.	Material (Option 2)	Art.-No.	Cable lengths (yyyy)
M8 male 0°	M8 female 0°	PVC 3 x 0.25 bk UL/CSA	7000-88001-610yyyy	PUR 3 x 0.25 bk UL/CSA+drag ch.	7000-88001-630yyyy	0.3 m, 0.6 m, 1 m, 1.5 m, 2 m, 3 m, 5 m
M8 male 0°	M8 female 0°	PVC 4 x 0.25 bk UL/CSA	7000-88011-611yyyy	PUR 4 x 0.25 bk UL/CSA+drag ch.	7000-88011-631yyyy	

M12 Connector – single ended

Side 1	Side 2	Material	Art.-No.	Material (Option 2)	Art.-No.	Cable lengths (yyyy)
M12 male 0°	–	PVC 4 x 0.34 bk UL/CSA	7000-12021-614yyyy	PUR 4 x 0.34 bk UL/CSA+drag ch.	7000-12021-634yyyy	3 m, 5 m, 10 m
M12 female 0°	–	PVC 4 x 0.34 bk UL/CSA	7000-12221-614yyyy	PUR 4 x 0.34 bk UL/CSA+drag ch.	7000-12221-634yyyy	
M12 female 90°	–	PVC 4 x 0.34 bk UL/CSA	7000-12341-614yyyy	PUR 4 x 0.34 bk UL/CSA+drag ch.	7000-12341-634yyyy	
M12 male 0°	–	PVC 5 x 0.34 bk UL/CSA	7000-12041-615yyyy	PUR 5 x 0.34 bk UL/CSA+drag ch.	7000-12041-635yyyy	
M12 female 0°	–	PVC 5 x 0.34 bk UL/CSA	7000-12241-615yyyy	PUR 5 x 0.34 bk UL/CSA+drag ch.	7000-12241-635yyyy	
M12 female 90°	–	PVC 5 x 0.34 bk UL/CSA	7000-12361-615yyyy	PUR 5 x 0.34 bk UL/CSA+drag ch.	7000-12361-635yyyy	

M12 Connector – double ended

Side 1	Side 2	Material	Art.-No.	Material (Option 2)	Art.-No.	Cable lengths (yyyy)
M12 male 0°	M12 female 0°	PVC 4 x 0.34 bk UL/CSA	7000-40021-614yyyy	PUR 4 x 0.34 bk UL/CSA+drag ch.	7000-40021-634yyyy	0.3 m, 0.6 m, 1 m, 1.5 m, 2 m, 3 m, 5 m
M12 male 0°	M12 female 90°	PVC 4 x 0.34 bk UL/CSA	7000-40121-614yyyy	PUR 4 x 0.34 bk UL/CSA+drag ch.	7000-40121-634yyyy	
M12 male 90°	M12 female 90°	PVC 4 x 0.34 bk UL/CSA	7000-40261-614yyyy	PUR 4 x 0.34 bk UL/CSA+drag ch.	7000-40261-634yyyy	
M12 male 0°	M12 female 0°	PVC 5 x 0.34 bk UL/CSA	7000-40041-615yyyy	PUR 5 x 0.34 bk UL/CSA+drag ch.	7000-40041-635yyyy	

M12 – M8 Adaptor

Side 1	Side 2	Material	Art.-No.	Material (Option 2)	Art.-No.	Cable lengths (yyyy)
M12 male 0°	M8 female 0°	PVC 3 x 0.25 bk UL/CSA	7000-40561-610yyyy	PUR 3 x 0.25 bk UL/CSA+drag ch.	7000-40561-630yyyy	0.3 m, 0.6 m, 1 m, 1.5 m, 2 m, 3 m, 5 m
M12 male 0°	M8 female 0°	PVC 4 x 0.25 bk UL/CSA	7000-40581-611yyyy	PUR 4 x 0.25 bk UL/CSA+drag ch.	7000-40581-631yyyy	



MSUD Valve Connectors

Side 1	Side 2	Material	Art.-No.	Material (Option 2)	Art.-No.	Cable lengths (yyyy)
MSUD valve plug A 18 mm (24 V)	Adaptor M12 male on rear	3-pol, A-cod.	7000-41421-0000000			3 m, 5 m, 10 m
MSUD Valve plug A 18 mm (24 V)	–	PVC 3 x 0.75 bk UL/CSA	7000-18021-616yyyy	PUR 3 x 0.75 bk UL/CSA+drag ch.	7000-18021-636yyyy	
MSUD Valve plug A 18 mm (110 V)	–	PVC 3 x 0.75 bk UL/CSA	7000-18041-616yyyy	PUR 3 x 0.75 bk UL/CSA+drag ch.	7000-18041-636yyyy	
MSUD Valve plug A 18 mm (230 V)	–	PVC 3 x 0.75 bk UL/CSA	7000-18081-616yyyy	PUR 3 x 0.75 bk UL/CSA+drag ch.	7000-18081-636yyyy	



Selfwireable Connectors

Description	Number of poles / connection	Art.-No.
M8 female 0° A-cod. IDC	3-pol., 0,14–0,34 mm ² , 2,5–5,1 mm	7000-08371-0000000
M8 male 0° A-cod. IDC	3-pol., 0,14–0,34 mm ² , 2,5–5,1 mm	7000-08331-0000000
M8 female 0° A-cod. IDC	4-pol., 0,14–0,34 mm ² , 2,5–5,1 mm	7000-08391-0000000
M8 male 0° A-cod. IDC	4-pol., 0,14–0,34 mm ² , 2,5–5,1 mm	7000-08351-0000000
M12 female 0° A-cod. IDC	4pol., 0,25–0,5 mm ² , 4–5,1 mm	7000-12601-0000000
M12 male 0° A-cod. IDC	4pol., 0,25–0,5 mm ² , 4–5,1 mm	7000-12481-0000000
M12 male 0° D-cod. IDC	4-pol., 0,14–0,34 mm ² , 4,5–8,8 mm, shielded	7000-14521-0000000
RI45 Professional male 0° IDC	4-pol., 0,14–0,34 mm ² , 4,5–9 mm, shielded, CAT5	7000-74001-0000000
RI45 Professional male 0° IDC	8-pol., 0,14–0,34 mm ² , 4,5–9 mm, shielded, CAT6	7000-74011-0000000
M12 male 90° D-cod. screw terminal	4-pol., max. 0,75 mm ² , 6–8 mm, shielded	7000-14581-0000000
M12 male 0° A-cod. screw terminal	4-pol., max. 0,75 mm ² , 4–6 mm	7000-12701-0000000
M12 female 0° A-cod. screw terminal	4-pol., max. 0,75 mm ² , 4–6 mm	7000-12901-0000000
M12 male 0° A-cod. screw terminal	5-pol., max. 0,75 mm ² , 4–6 mm	7000-12721-0000000
M12 female 0° A-cod. screw terminal	5-pol., max. 0,75 mm ² , 4–6 mm	7000-12921-0000000
M12 male 0° A-cod. screw terminal	5-pol., max. 0,75 mm ² , 6–8 mm	7000-12761-0000000
M12 female 0° A-cod. screw terminal	5-pol., max. 0,75 mm ² , 6–8 mm	7000-12961-0000000
M12 Power male 0° L-cod. Screw terminal	5-pol., max 2.5 mm ² , 8–13 mm	7000-P4591-0000000
M12 Power female 0° L-cod. Screw terminal	5-pol., max 2.5 mm ² , 8–13 mm	7000-P4611-0000000

T-Coupler SlimLine

Side 1	Side 2	Number of poles	Art.-No.
M12 male	2 x M12 female	5-pol. / 2 x 4-pol.	7000-41131-0000000
M12 male	2 x M8 female	4-pol. / 2 x 3-pol.	7000-41201-0000000

POWER



M12 Power L-cod. Connector – single ended

Side 1	Side 2	Material	Art.-No.	Cable lengths (yyyy)
M12 male 0°	–	TPE 4 x 1.5 yellow UL/CSA, TC-ER	7700-P4101-U0Cyyyy	3 m, 5 m, 10 m
M12 female 0°	–	TPE 4 x 1.5 yellow UL/CSA, TC-ER	7700-P4121-U0Cyyyy	
M12 male 0°	–	TPE 5 x 1.5 yellow UL/CSA, TC-ER	7700-P4201-U0Dyyyy	
M12 female 0°	–	TPE 5 x 1.5 yellow UL/CSA, TC-ER	7700-P4221-U0Dyyyy	

M12 Power L-cod. Connector – double ended

Side 1	Side 2	Material	Art.-No.	Cable lengths (yyyy)
M12 male 0°	M12 female 0°	TPE 4 x 1.5 yellow UL/CSA, TC-ER	7700-P4141-U0Cyyyy	0.3 m, 0.6 m, 1 m, 1.5 m, 2 m, 3 m, 5 m
M12 male 0°	M12 female 0°	TPE 5 x 1.5 yellow UL/CSA, TC-ER	7700-P4241-U0Dyyyy	

Mini (7/8") Connector – single ended

Side 1	Side 2	Material	Art.-No.	Cable lengths (yyyy)
Mini (7/8") male 0°	–	TPE 3 x 1.5 yellow UL/CSA, TC-ER	7700-A3001-U1Byyyy	3 m, 5 m, 10 m
Mini (7/8") female 0°	–	TPE 3 x 1.5 yellow UL/CSA, TC-ER	7700-A3021-U1Byyyy	
Mini (7/8") male 0°	–	TPE 4 x 1.5 yellow UL/CSA, TC-ER	7700-A4001-U1Cyyyy	
Mini (7/8") female 0°	–	TPE 4 x 1.5 yellow UL/CSA, TC-ER	7700-A4021-U1Cyyyy	
Mini (7/8") male 0°	–	TPE 5 x 1.5 yellow UL/CSA, TC-ER	7700-A5001-U1Dyyyy	
Mini (7/8") female 0°	–	TPE 5 x 1.5 yellow UL/CSA, TC-ER	7700-A5021-U1Dyyyy	

Mini (7/8") Connector – double ended

Side 1	Side 2	Material	Art.-No.	Cable lengths (yyyy)
Mini (7/8") male 0°	Mini (7/8") female 0°	TPE 3 x 1.5 yellow UL/CSA, TC-ER	7700-A3A01-U1Byyyy	0.3 m, 0.6 m, 1 m, 1.5 m, 2 m, 3 m, 5 m
Mini (7/8") male 0°	Mini (7/8") female 0°	TPE 4 x 1.5 yellow UL/CSA, TC-ER	7700-A4A01-U1Cyyyy	
Mini (7/8") male 0°	Mini (7/8") female 0°	TPE 5 x 1.5 yellow UL/CSA, TC-ER	7700-A5A01-U1Dyyyy	

"Data" on the next page

**M12 D-cod. Connector – single ended**

Side 1	Side 2	Material	Art.-No.	Cable lengths (yyyy)
M12 male 0°	–	TPE 2 x 2 x 24 AWG SF/UTP CAT5e teal	7700-14541-S4Uyyyy	3 m, 5 m, 10 m

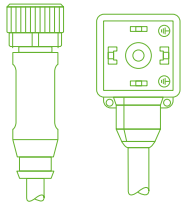
M12 D-cod. & RJ45 Connector – double ended

Side 1	Side 2	Material	Art.-No.	Cable lengths (yyyy)
M12 male 0°	M12 male 0°	TPE 2 x 2 x 24 AWG SF/UTP CAT5e teal	7700-44511-S4Uyyyy	0.3 m, 0.6 m, 1 m, 1.5 m, 2 m, 3 m, 5 m
M12 male 0°	M12 male 90°	TPE 2 x 2 x 24 AWG SF/UTP CAT5e teal	7700-44541-S4Uyyyy	
M12 male 90°	M12 male 90°	TPE 2 x 2 x 24 AWG SF/UTP CAT5e teal	7700-44561-S4Uyyyy	
M12 male 0°	RJ45 male 0°	TPE 2 x 2 x 24 AWG SF/UTP CAT5e teal	7700-44711-S4Uyyyy	
RJ45 male 0°	RJ45 male 0°	TPE 2 x 2 x 24 AWG SF/UTP CAT5e teal	7700-74301-S4Uyyyy	

M12 X-cod. Connector – double ended

Side 1	Side 2	Material	Art.-No.	Cable lengths (yyyy)
M12 male 0°	M12 male 0°	TPE 4 x 2 x 26 AWG SF/UTP CAT6a teal	7700-51001-S4Xyyyy	0.3 m, 0.6 m, 1 m, 1.5 m, 2 m, 3 m, 5 m
M12 male 0°	M12 male 90°	TPE 4 x 2 x 26 AWG SF/UTP CAT6a teal	7700-51011-S4Xyyyy	
M12 male 90°	M12 male 90°	TPE 4 x 2 x 26 AWG SF/UTP CAT6a teal	7700-51021-S4Xyyyy	
M12 male 0°	RJ45 male 0°	TPE 4 x 2 x 26 AWG SF/UTP CAT6a teal	7700-51101-S4Xyyyy	

SIGNAL

**A-coded M8**

- 3 or 4-pole, male or female
- With or without LED

A-coded M12

- 4 or 5-pole, male or female
- With or without LED
- Selfwireable Connectors (IDC)
- T-Coupler

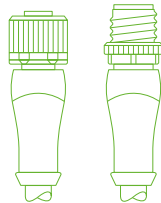
Valve Plug

- Type A (18 mm) / Type C (8 mm)
- With LED and suppression

PVC & PUR Cable Properties

- Black jacket
- 18 AWG, 22 AWG or 24 AWG
(0.75 mm², 0.34 mm² or 0.25 mm²)
- PUR: suitable for drag chains:
10 million bending cycles
- UL Approval

POWER

**L-coded M12**

- Male or female
- 4-pole (without FE) or 5-pole
(with FE)
- 16 A / 63V DC

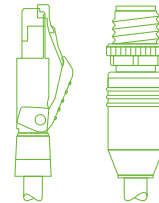
Mini (7/8")

- Male or female
- 3, 4, or 5-pole
- 12A/600V AC/DC

TPE Cable Properties

- Yellow jacket
- Suitable for drag chains:
2 million bending cycles
- 14 AWG or 16 AWG
(2.5 mm² or 1.5 mm²)
- UL Approval

DATA

**D-coded M12**

- 4-pole male
- Cat.5e (100 Mbit/s) transmission speed

X-Coded M12

- 8-pole
- Cat.6a (10 Gbit/s) transmission speed

RJ45 Connector

- 4 or 8-pole
- Cat.5e or CAT.6a transmission speed

TPE Cable Properties

- Teal jacket
- Suitable for drag chains:
3 million bending cycles
- 24 AWG or 26 AWG
(0.25 mm² or 0.14 mm²)
- UL Approval