

WIRING CONCEPTS

xtremeDB | xtremeDBmini | xtremeBLOCK

02|2024

Connection overview

xtremeDB

OUTPUT POWER / ADDRESS AND BAUDRATE SELECTION

SENSOR POWER / CAN BUS

IO PORTS



Output Power Supply



DP-18-4

Fits to DP-34044-1-xxx
and DP-34044-7-xxx



DP-18-8

Fits to DP-34044-3-xxx
and DP-34044-5-xxx



Power Adapter
One-Cable-Technology
xtremeDB



DP-34042-707

**Bridges the sensor supply to the actuator supply,
fully potted, incl. 120 Ohm CAN termination resistor**



Addressing

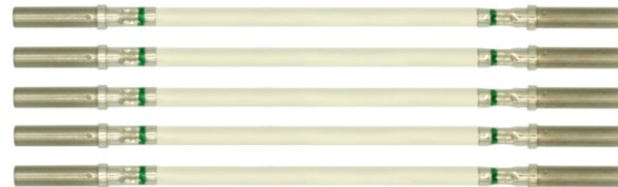
xtremeDB -1 / -3 / -5

Solution 1:

Select preconfigured address in the [DP-18-4](#) resp. [DP-18-8](#) cable configuration tool.



Solution 2:



Address jumpers [7072-99891-000000](#) for self wireable connectors or [DP-18-x](#) without preconfigured address.



Addressing / Blind Connector xtremeDB -2

Solution 1: [DP-18-0 configurable 18-pin addressing plug](#)



Solution 2: [DP-34042-700](#)



Solution 3:


+

+


[DP-34042-701](#) 2x [DP-34042-795 \(VE10\)](#) [7072-99891-000000](#)



CAN Wiring unshielded



7072-77095-260xxxx



CAN Termination 120 Ω
DP-34042-747



DP-34045-2
Summenstrom:
13 A



7072-77xxx-288xxxx



7072-40yyy-288xxxx



7002-42751-0000000



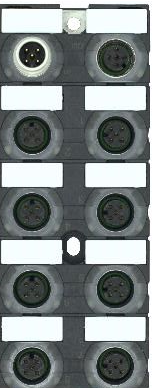
7072-40yyy-288xxxx



7072-77095-260xxxx



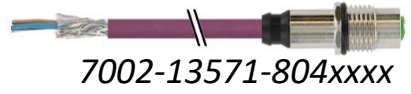
7072-77yyy-288xxxx



277080
Sum Current
4 A



CAN Wiring shielded



7002-13571-804xxxx

ALTERNATIVE

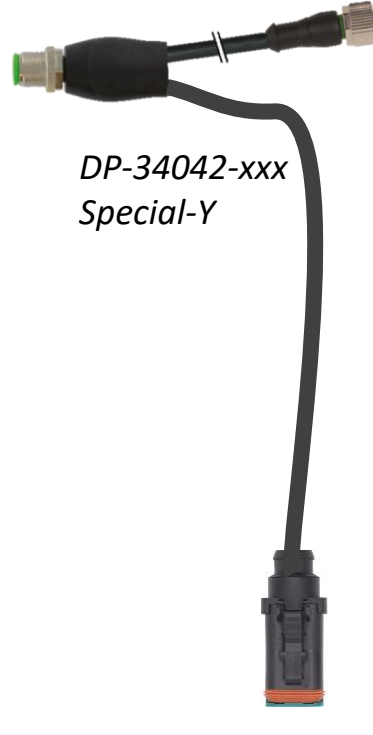


7002-13225-804xxxx



7002-40531-804xxxx

7002-42781-000000



DP-34042-xxx
Special-Y



7002-131xx-804xxxx



277289

Max. sum current: 4 A



7002-13105-804xxxx

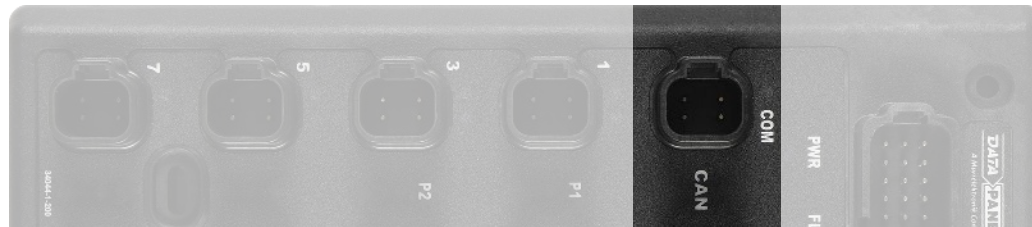


7072-77285-804xxxx

7072-77285-804xxxx

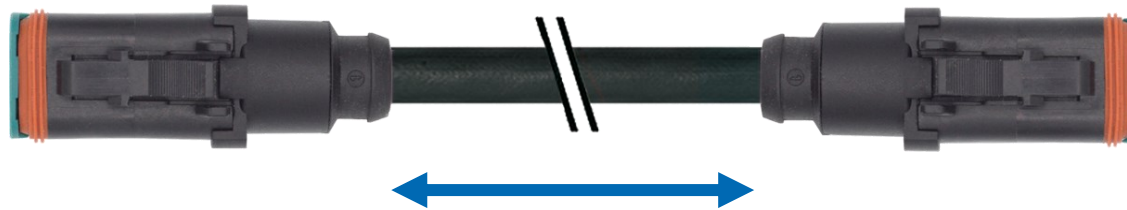


CAN Termination 120 Ω
7000-13461-000000



Cable Lengths

7072-77095-260xxxx


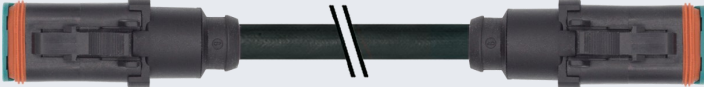
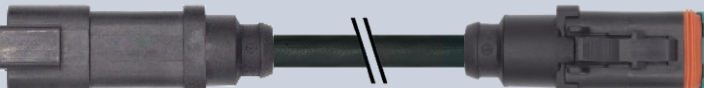



- Article numbers in this document containing **xxxx** instead of cable length in cm (e.g. 0150 = 150 cm = 1,5 m)
- Standard lengths are 0050, 0150, 0300, 0500, 0750, 1000 and 1500 and all lengths between in steps of 0050 (50 cm)
- 7072- and 7972- types orderable from **one piece!**
- Feel free to contact us if you do not find your cable



System Cables for fixed Installation



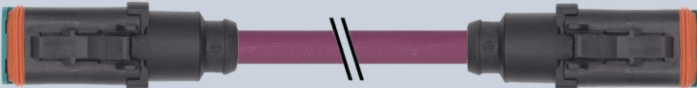

MDC4 - CAN and Sensor Power

ARTICLE NO.	CABLE	PINOUT	PICTURE
7072-72165-260xxxx	PUR/PVC 2x1,5+1x(2x0,75) ADR	BN - I OG - II BU - III GN - IV	
7072-77095-260xxxx	PUR/PVC 2x1,5+1x(2x0,75) ADR	1:1	
7072-77065-260xxxx	PUR/PVC 2x1,5+1x(2x0,75) ADR	1:1	
7072-72465-260xxxx	PUR/PVC 2x1,5+1x(2x0,75) ADR	BN - I OG - II BU - III GN - IV	



System cables for flexible use

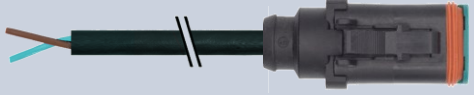



MDC4 - CAN and Sensor Power

ARTICLE NO.	CABLE	PINOUT	PICTURE
7072-72165-804xxx	PUR/PP 1x(4x0,5) HIGH FLEX SHIELED	1 – WH 2 – OG 3 – BN 4 – GN	
7072-77285-804xxxx	PUR/PP 1x(4x0,5) HIGH FLEX SHIELED	1 – n.c. 2 – I 3 – III 4 – II 5 – IV	
7072-77095-804xxxx	PUR/PP 1x(4x0,5) HIGH FLEX SHIELED	1:1	
7072-77065-804xxxx	PUR/PP 1x(4x0,5) HIGH FLEX SHIELED	1:1	



Output cordsets



MDC4 - open ended

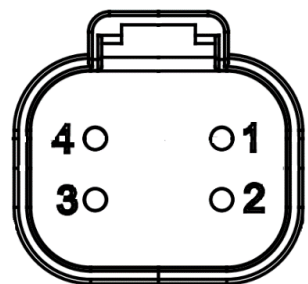
ARTICLE NO.	CABLE	PINOUT	FOR USE WITH	PICTURE
7072-72151-754xxxx	PUR/PP 2x0,75 HIGH FLEX	I II BU - III BN - IV	Single signal	
7072-72151-484xxxx	PUR/PVC 2x1,5 ADR	I II WH - III BK - IV	Single signal, high current	
7072-72161-569xxxx	PUR/PP 4x0,75 HIGH FLEX	BN - I WH - II BU - III BK - IV	Double signal with common supply and GND	
7072-72161-P07xxxx	PUR/PP 4x1,5 HIGH FLEX	BN - I WH - II BU - III BK - IV	Double signal high current with common supply and GND	



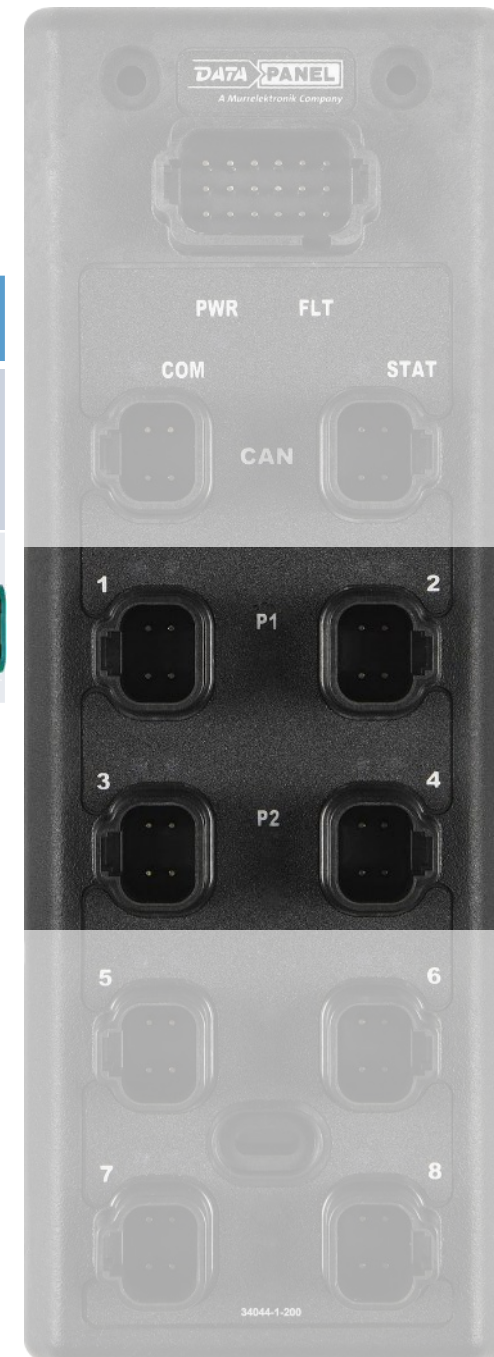
Output cordsets

MDCY4 - open ended

ARTICLE NO.	CABLE	PINOUT	FOR USE WITH	PICTURE
7072-72193-754xxxx	2x PUR/PP 2x0,75 HIGH FLEX	BN1 – II BU1 – III – BU2 BN2 – IV	For two signals, common GND , suitable for all xtreme Modules	
7072-72191-754xxxx	2x PUR/PP 2x0,75 HIGH FLEX	BU1 – I BN1 – II BU2 – III BN2 – IV	For two signals with separated GNDs , suitable for xDB active and xDBmini only	





Pin	xtremeDB active xtremeDBmini	xtremeBLOCK xtremeDB passive -1 / -5
1	GND	U _B
2	Signal B	Signal B
3	GND	GND
4	Signal A	Signal A



Signal Extension Cables

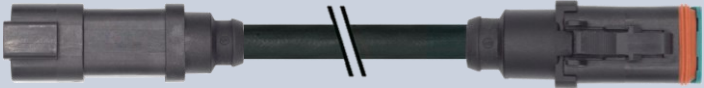

MDC4 – MDC4

ARTICLE NO.	CABLE	PINOUT	PICTURE
7072-77061-569xxxx	PUR/PP 4x0,75 HIGH FLEX	1:1	
7072-77091-569xxxx	PUR/PP 4x0,75 HIGH FLEX	1:1	



Power Extension Cables

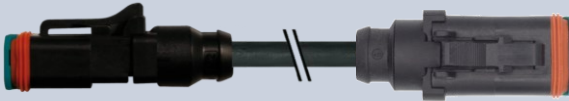
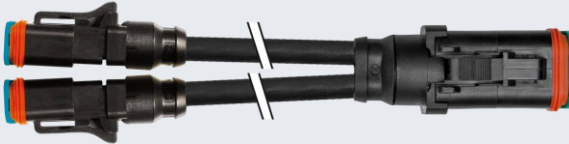
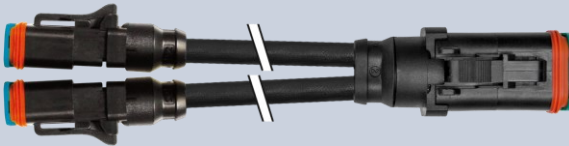
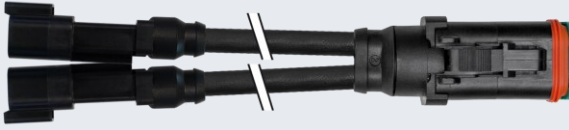
MDC4 – MDC4

ARTICLE NO.	CABLE	PINOUT	PICTURE
7072-77061-P07xxxx	PUR/PP 4x1,5 HIGH FLEX	1:1	
7072-77091-P07xxxx	PUR/PP 4x1,5 HIGH FLEX	1:1	



Output connection cables

MDC4 – MDC2 no suppression

ARTICLE NO.	CABLE	PINOUT	PICTURE
7072-77102-754xxxx	2x PUR/PP 2x0,75 HIGH FLEX	I II GND – III SIG – IV	
7072-77501-754xxxx	2x PUR/PP 2x0,75 HIGH FLEX separated GNDs	GND2 – I S2 – II GND1 – III S1 – IV	
7072-77541-754xxxx	2x PUR/PP 2x0,75 HIGH FLEX	I S2 – II GND – III S1 – IV	
7072-77531-754xxxx	2x PUR/PP 2x0,75 HIGH FLEX	–I S2 – II GND – III - GND S1 – IV	



Output connection cables






MDC4 – MDC2 with suppression

ARTICLE NO.	CABLE	PINOUT	CIRCUIT	PICTURE
7072-77101-754xxxx	2x PUR/PP 2x0,75 HIGH FLEX	I - II 2 (GND) - III 1 (SIG) - IV		
7072-77104-754xxxx	2x PUR/PP 2x0,75 HIGH FLEX	I - II 2 (GND) - III 1 (SIG) - IV		
7072-7754x-754xxxx	2x PUR/PP 2x0,75 HIGH FLEX	I S2 - II GND - III S1 - IV		
7072-77543-754xxxx	2x PUR/PP 2x0,75 HIGH FLEX	I S2 - II GND - III S1 - IV		
7072-7754x-754xxxx	2x PUR/PP 2x0,75 HIGH FLEX	I S2 - II GND - III S1 - IV		



Output connection cables

MDC4 – MSUD DIN A 18 mm

ARTICLE NO.	CABLE	VALVE	PINOUT	CIRCUIT	PICTURE
7072-77731-754xxxx	PUR/PP 2x0,75 HIGH FLEX	A	I -II GND – III S1 – IV		
7072-77721-754xxxx	PUR/PP 2x0,75 HIGH FLEX	A	I II GND – III S1 – IV		
7072-77723-754xxxx	PUR/PP 2x0,75 HIGH FLEX	A	I II GND – III S1 – IV		



Output connection cables



MDC4Y - MSUD DIN A 18 mm

ARTICLE NO.	CABLE	VALVE	PINOUT	CIRCUIT	PICTURE
7072-77534-754xxxx	2x PUR/PP 2x0,75 HIGH FLEX	2xA	-I S2 - II GND - III S1 - IV		
7072-77537-754xxxx	2x PUR/PP 2x0,75 HIGH FLEX	2xA	I S2 - II GND - III S1 - IV		
7072-77536-754xxxx	2x PUR/PP 2x0,75 HIGH FLEX	2xA	I S2 - II GND - III S1 - IV		



Output connection cables

MDC4Y - MSUD DIN Bi 11 mm

ARTICLE NO.	CABLE	VALVE	PINOUT	CIRCUIT	PICTURE
7072-77539-754xxxx	2x PUR/PP 2x0,75 HIGH FLEX	2x Bi	- I S2 - II GND - III S1 - IV		



Output connection cables

MDC4 – Double MSUD

ARTICLE NO.	CABLE	VALVE	PINOUT	CIRCUIT	PICTURE
7072-77801-637xxxx	PUR/PP 4x0,75 HIGH FLEX	2xA 110 mm	I S2 – II GND – III S1 – IV		
7072-77811-637xxxx	PUR/PP 4x0,75 HIGH FLEX	2xA 150 mm	I S2 – II GND – III S1 – IV		
7072-77901-637xxxx	PUR/PP 4x0,75 HIGH FLEX	2xBI 110 mm	I S2 – II GND – III S1 – IV		



Output connection cables




MDC4 - MJC(JPT) Connection Cables

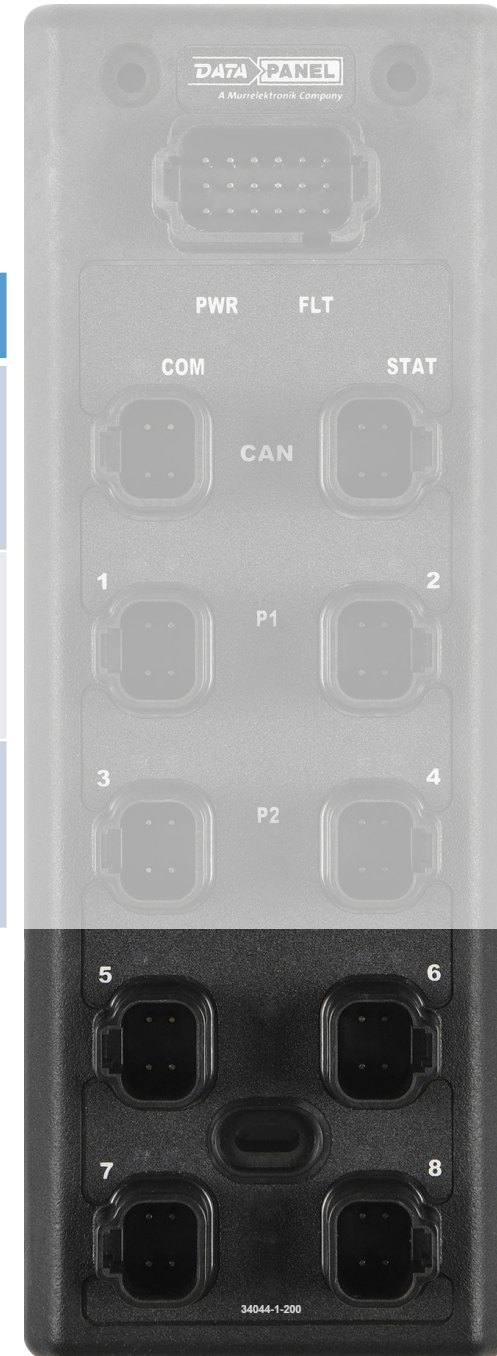
ARTICLE NO.	CABLE	PINOUT	CIRCUIT	PICTURE
7072-77971-754xxxx	PUR/PP 2x0,75 HIGH FLEX	I II GND – III SIG – IV		
7072-77973-754xxxx	PUR/PP 2x0,75 HIGH FLEX	I II GND – III SIG – IV		
7072-77571-754xxxx	2x PUR/PP 2x0,75 HIGH FLEX	I 1 – II 2 – III – 2 IV – 1		
7072-77572-754xxxx	2x PUR/PP 2x0,75 HIGH FLEX	I 1 – II 2 – III – 2 IV – 1		
7072-77573-754xxxx	2x PUR/PP 2x0,75 HIGH FLEX	I 1 – II 2 – III – 2 IV – 1		



Input cordsets

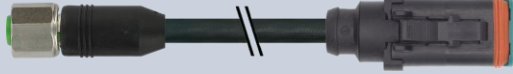



MDC4 – open end

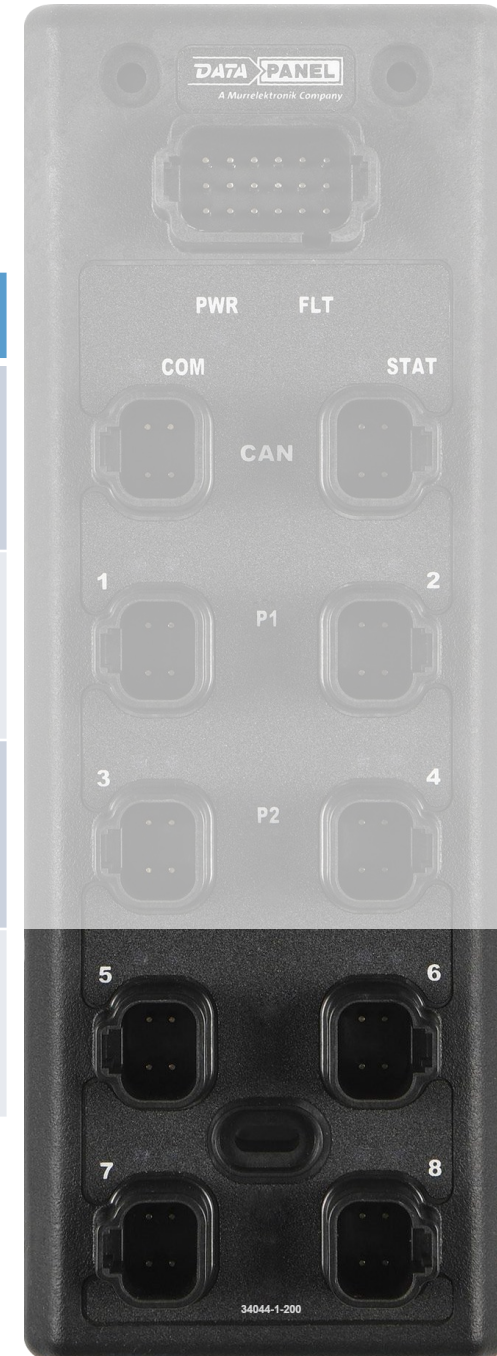
ARTICLE NO.	CABLE	PINOUT	PICTURE
7072-72161-569xxxx	PUR/PP 4x0,75 HIGH FLEX	BN – I WH – II BU – III BK – IV	
7972-72195-428xxxx	2x PUR/PP 3x0,5 HIGH FLEX	BN1 – I – BN2 BK1 – II BU1 – III – BU2 IV – BK2	
7072-72195-564xxxx	2x PUR/PP 3x0,75 HIGH FLEX		



Input connection cables




MDC4 – M12 female

ARTICLE NO.	CABLE	PINOUT	FOR USE WITH	PICTURE
7072-77301-569xxxx	PUR/PP 4x0,75	1 – I 2 – II 3 – III 4 – IV	For use with sensors with 1 or 2 outputs, analog signal on M12 pin 2	
7072-77302-569xxxx	PUR/PP 4x0,75	1 – I 2 – IV 3 – III 4 – II	For use with sensors with 1 or 2 outputs, analog signal on M12 pin 4	
7072-77305-564xxxx	PUR/PP 3x0,75	1 – I 2 – II 3 – III 4	Analog sensors with signal on M12 Pin 2 (e.g. ifm pressure switches)	
7072-77306-564xxxx	PUR/PP 3x0,75	1 – I 2 3 – III 4 – II	Analog sensors with signal on M12 Pin 4 (e.g. Hydac pressure switches)	



Input connection cables

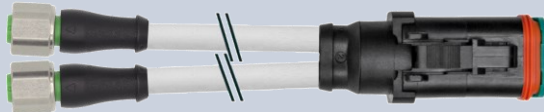
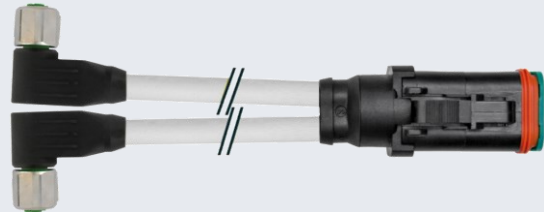
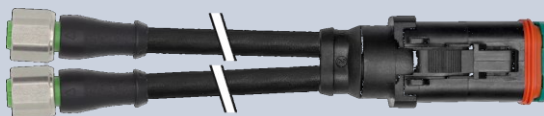
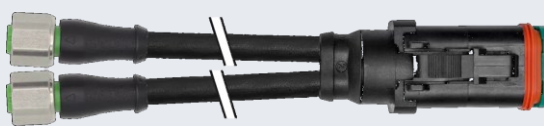
MDC4 – M12 female

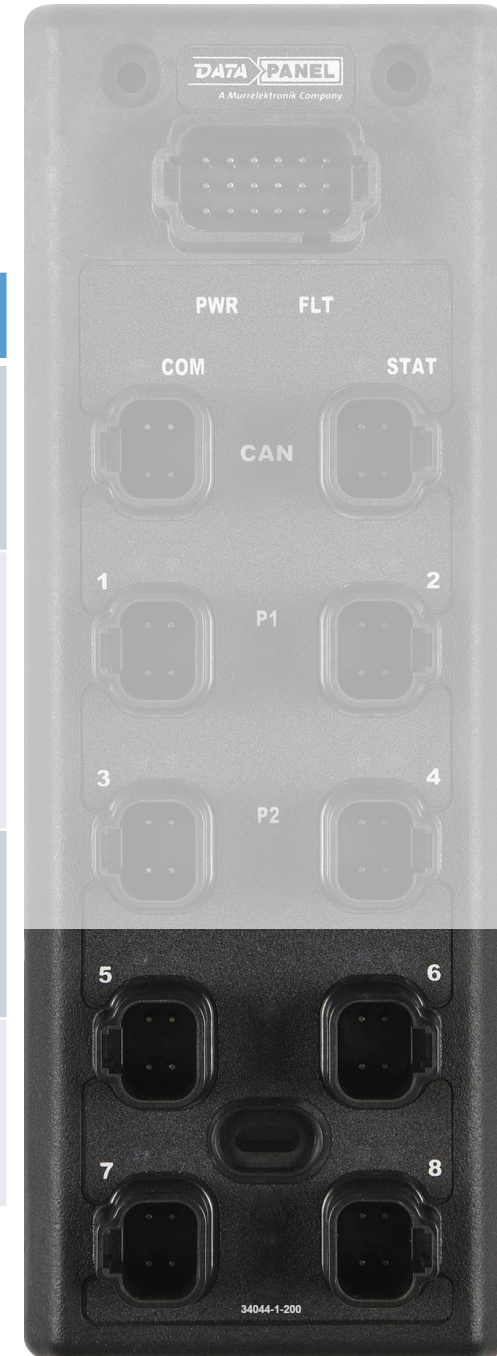
ART. NR.	KABEL	PINOUT	BESCHREIBUNG	ABBILDUNG
7072-77308-754xxxx	PUR/PP 2x0,75	1 – I 2 3 – II 4 –	For use with sensors with analog signal on M12 pin 3 (two-wire)	
7072-77309-754xxxx	PUR/PP 2x0,75	1 – I 2 3 4 – II	For use with sensors with analog signal on M12 pin 4 (two-wire)	
7072-77311-569xxxx	PUR/PP 4x0,75	1 – I 2 – II 3 – III 4 – IV	For use with sensors with 1 or 2 outputs, analog signal on M12 pin 2	



Input connection cables



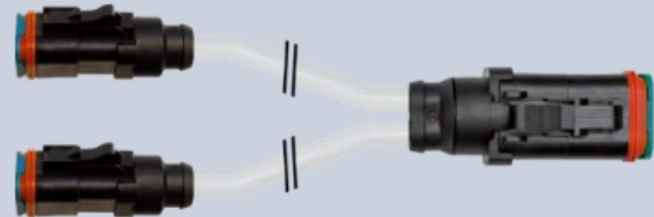
MDCY4 – M12 female

ARTICLE NO.	CABLE	PINOUT	FOR USE WITH	PICTURE
7972-77561-428xxxx	PUR/PP 3x0,5	1 – I – 1 4 – II 3 – III – 3 IV – 4	Sensors with signal on M12 Pin 4	
7972-77566-428xxxx	2x PUR/PP 3x0,5 HIGH FLEX	1 – I – 1 4 – II 3 – III – 3 IV – 4	Sensors with signal on M12 Pin 4	
7072-77562-754xxxx	2x PUR/PP 2x0,75	1 – I – 1 4 – II III IV – 4	2x Two Wire Sensors, Signal on M12 Pin 4	
7072-77563-754xxxx	2x PUR/PP 2x0,75	1 – I – 1 2 – II III IV – 2	2x Two Wire Sensors, Signal on M12 Pin 2	



Input connection cables

MDC4 – MDC3

ARTICLE NO.	CABLE	PINOUT	PICTURE
7072-77111-564xxxx	3x PUR/PP 2x0,75 HIGH FLEX	A – I C – III B – IV	
7072-77112-564xxxx	3x PUR/PP 2x0,75 HIGH FLEX	A – I B – II C – III	
7972-77581-428xxxx	2x PUR/PP 3x0,5 HIGH FLEX	1 – I – 1 4 – II 3 – III – 3 IV – 4	



Adapter cables

MDC06-4S to MDC04-4P

ARTICLE NO.	CABLE	FOR USE WITH	PINOUT	PICTURE
7072-77xxx-260xxxx	PUR/PP 4x0,75	Signal changer PIN 2 <-> 4 Adapter Hybrid CAN to xBLOCK / Bucher	1 – I 2 – IV 3 – III 4 – II	
7072-77xxx-260xxxx	PUR/PVC 2x 1,5+1x(2x0,5)	Adapter Hybrid CAN xtremeDB to Blinkmarine	1 – IV 2 – II 3 – III 4 – I	
7072-77xxx-260xxxx	PUR/PVC 2x 1,5+1x(2x0,5)	Adapter Hybrid CAN xtremeDB to Griessbach	1 – I 2 – IV 3 – II 4 – IIII	
7072-77xxx-260xxxx	PUR/PVC 2x 1,5+1x(2x0,5)	Adapter Hybrid CAN xtremeDB to Danfoss®	1 – III 2 – I 3 – IV 4 – II	



Adapter cables

MDC06-4S to MDC04-4P

ARTICLE NO.	CABLE	FOR USE WITH	PINOUT	PICTURE
7072-77xxx-569xxxx	PUR/PP 4x0,75	Signal changer PIN 2 <-> 4 (for PWM signals on port 1 and 3)	1 – I 2 – IV 3 – III 4 – II	
7072-77xxx-569xxxx	PUR/PP 4x0,75	<ol style="list-style-type: none"> SIGNAL DISTRIBUTORS for different output and input connectors and lengths CAN / SENSOR power splice Measuring adapter 	1 – I – 1 2 – II – 2 3 – III – 3 4 – IV – 4	
7072-77xxx-5640025	PUR/PP 3x0,75	Dual Analo signaladapter (Analog signal on pin 2 and 4) for Tank level sensors etc.	1 – I – 1 2 – II – 3 – III – 3 – IV – 2	





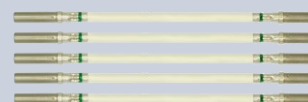


Adapter cables MDC-4

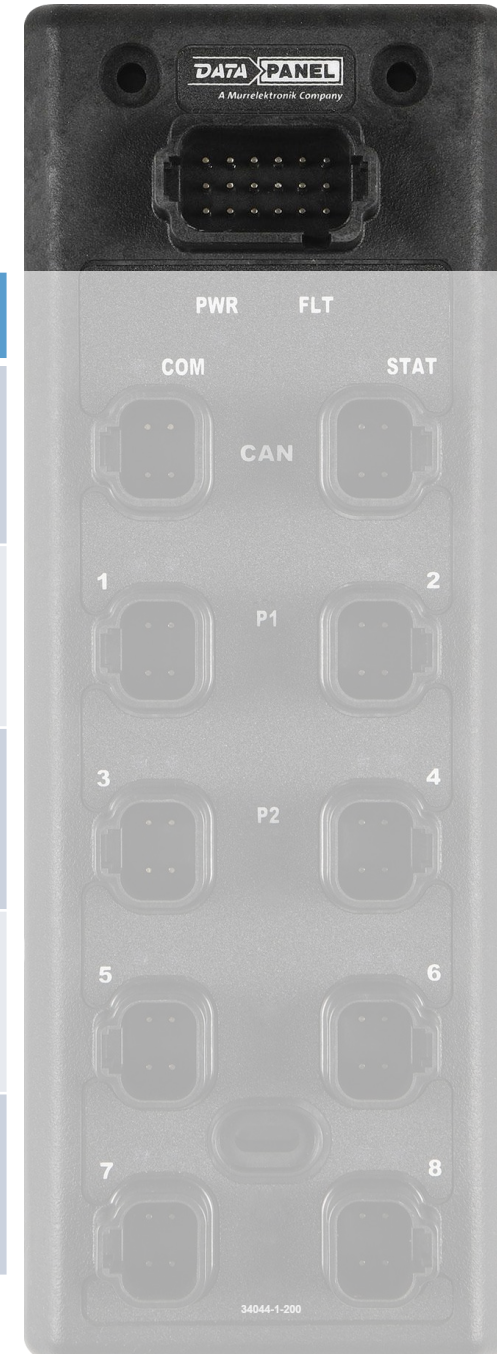
ART. NR.	KABEL	ZWECK	PINOUT	ABBILDUNG
7072-77xxx-569xxxx	PUR/PP 4x0,75	<ol style="list-style-type: none"> SIGNALVERTEILER für verschiedene Aus- und Eingangsstecker und Längen CAN / SENSOR-Power Spleiß Messadapter 	1 – I – 1 2 – II – 2 3 – III – 3 4 – IV – 4	
7072-77xxx-5640025	PUR/PP 3x0,75	Dual Analogsignaladapter (Analogsignal auf Pin 2 und 4) für Tankfüllstandsensoren etc.	1 – I – 1 2 – II – 3 – III – 3 – IV – 2	
7072-77281-569xxxx	PUR/PP 4x0,75	Adapter z.B. um CAN und Power auf einen M12 CAN Verteiler zu bringen	1 – I 2 – II 3 – III 4 – IV	
7072-77291-569xxxx	PUR/PP 4x0,75	Adapter z.B. um CAN und Power auf einen M12 CAN Verteiler zu bringen	1 – I 2 – II 3 – III 4 – IV	



Accessories





18-pin connection

ARTICLE NO.	DESCRIPTION	PICTURE
DP-34042-700	Set central plug with A-coding, 18 x contacts + 18 dummy plugs	
DP-34042-701	Central connector 18-pin. with A-coding	
7072-99891-0000000	Address jumpers, 5 PCS, length 55 mm, PP wire white	
DP-34042-706	Blanking cover (CAP) for 18-pin connectors	
DP-34042-705	Backshell 0° for 18-pin connectors	



Accessories




4-pin connections

ARTICLE NO.	DESCRIPTION	PICTURE
DP-34042-740	4-pin connector gray with end cap and wedgelock for single wires	
DP-34042-749	4-pin connector gray with reduced seal and wedgelock for single wires	
DP-34042-743	Dummy connector for xtremeDB I/O connections	
DP-34042-747	CAN terminating resistor 120 Ohm AT06-4S pins II-R-IV	








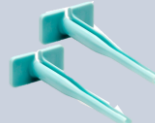
Accessories

4-pin connections

ARTICLE NO.	DESCRIPTION	PICTURE
DP-34042-745	Backshell 0° for 4-pin connector NC12	
DP-34042-755	Backshell 0° for 4-pin connector NC8	
DP-34042-746	Backshell 90° for 4-pin connector NC12	
DP-34042-756	Backshell 90° for 4-pin connector NC8	
DP-34042-744	Cap for 4-pin connector	



Accessories

ARTICLE NO.	PU PCS	DESCRIPTION	PICTURE
DP-34042-793	4	Solid contacts, nickel-plated, 0.5 - 1.5mm ²	
DP-34042-795	10	Blind plug standard seal (PU 10 PCS)	
DP-34042-796	10	Blind plug RD reduced seal (PU 10 PCS)	
DP-34042-790	9x2	Cable ties, 3,5 x 150 mm, different colours, 9x2 pcs. per colour	
DP-34042-799	9x2	Cable ties, 2,5 x 100 mm, different colours, 9x2 pcs. per colour	
DP-34042-797	1	Release tool for wedgelock and contacts	
DP-34042-798	2	Contact removal tool for 18-pin connectors	





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