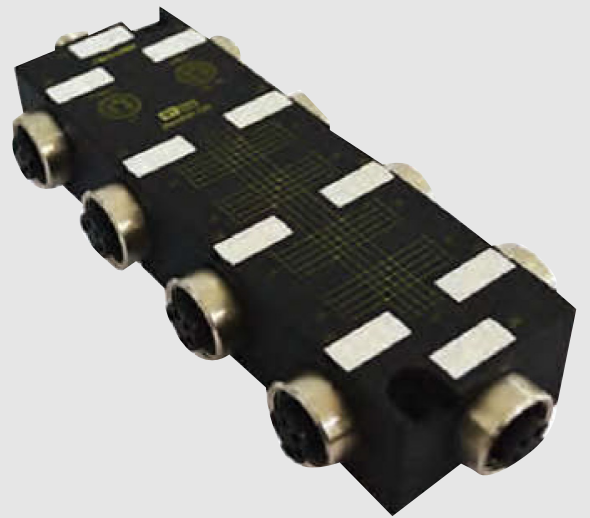


DeciveNet™ Connector

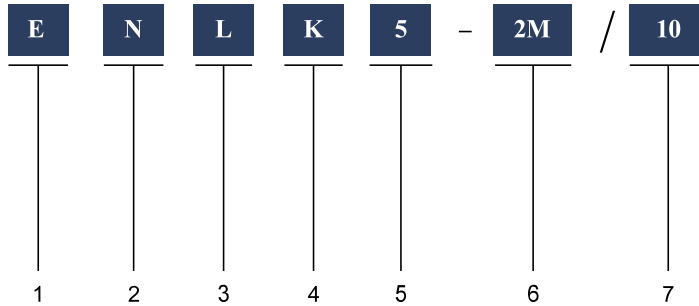
DeciveNet
Connector
DeciveNet
Connector



DeciveNet
Connector
DeciveNet

DeviceNet™ connector part number key

M12x1 pre-moulding DeviceNet™ connector



1 E M12x1 connector

2 N DeviceNet™ type

3 L Right angle
Blank Straight

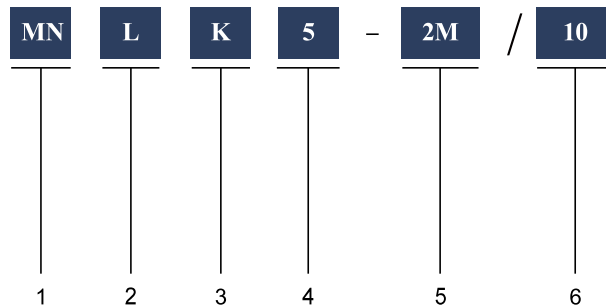
4 K Female
Z Male

5 Number of pins
contact distribution 1 Shield
2 RD(V+)
3 BK(V-)
4 WH(CAN_H)
5 BU(CAN_L)

6 Length [m]

7 Cable Jacket**
/10 - Thin cable 10

7/8" DeviceNet™ pre-moulding connector



1 MN 7/8" DeviceNet™ connector

2 L Right angle
Blank Straight

3 K Female
Z Male

4 Number of pins

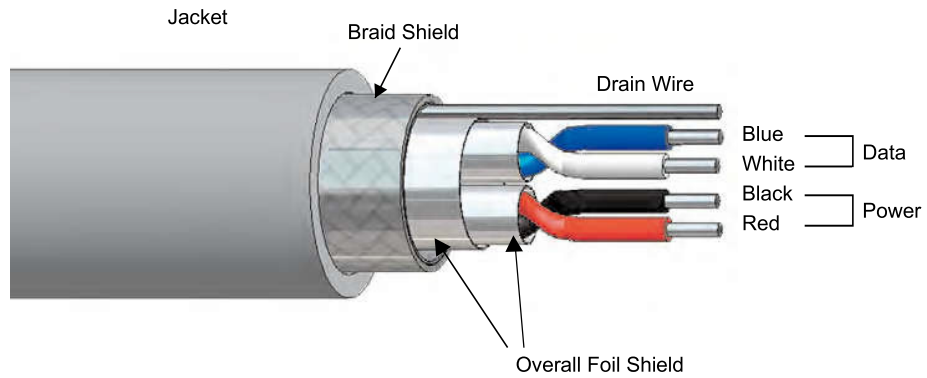
5 Length [m]

6 Cable Jacket**
Blank Thick Cable Blank
/10 Thin cable 10

DeviceNet™ Bus connector cable type

DeviceNet™ Thin Cable Specifications

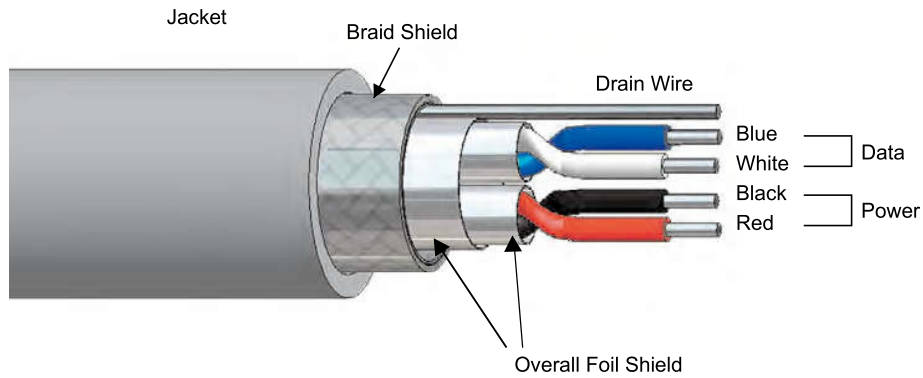
Commonly used DeviceNet™ Branch network , or in Route for maximum distance of 100m



Cable Type NO.	Power wire		Data wire		Out Jacket Material Color Nominal O.D.	Shields Type Drain Wire	Features	Suffix code
	AWG Color Code	DCR(/1000 feet) Insulation	AWG Color Code	DCR(/1000 feet) Insulation				
58221332-*M	2/22 AWG	18.1 Ohms	2/22 AWG	18.1 Ohms	PVC Grey 7.2 mm	Foil 22 AWG		10 75°C 300 Volts
	BK/RD	PVC	BU/WH	PE				
58214311-*M	2/22 AWG	16.5 Ohms	2/22 AWG	16.5 Ohms	TPU Charcoal gray	Foil/Braid 22 AWG	Highly flexible Resistance weld-sparks	0032 80°C 600 Volts

DeviceNet™ Mid Cable Specifications

DeviceNet™ network trunk can be used for a maximum distance of 300m

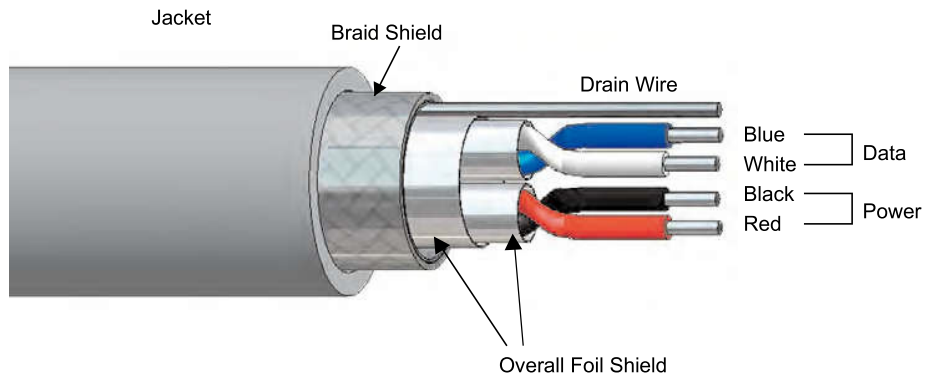


Cable Type NO.	Power wire		Data wire		Out Jacket Material Color Nominal O.D.	Shields Type Drain Wire	Features	Suffix code
	AWG Color Code	DCR(/1000 feet) Insulation	AWG Color Code	DCR(/1000 feet) Insulation				
58018161-*M	2/16AWG	4.1 Ohms	2/20 AWG	11.2 Ohms	PVC Grey	Foil		0011 80°C 300 Volts
	BK/RD	PVC	BU/WH	PE	8.4 mm	20 AWG		
58201331-*M	2/16AWG	4.1Ohms	2/20 AWG	10.4 Ohms	PVC Grey	Foil	Highly flexible Resistance weld-sparks	0031 80°C 300 Volts
	BK/RD	PVC	BU/WH	PE	10 mm			

DeviceNet™ Bus connector cable type

DeviceNet™ Thick Cable Specifications

DeviceNet™ network backbone for a maximum distance of 500m



Cable Type NO.	Power wire		Data wire		Out Jacket Material Color Nominal O.D.	Shields Type Drain Wire	Features	Suffix code
	AWG Color Code	DCR/(1000 feet) Insulation	AWG Color Code	DCR/(1000 feet) Insulation				
58200332-*M	2/15AWG	3.2 Ohms	2/18AWG	6.5 Ohms	PVC Grey	Foil/Braid		blank 75°C 300 Volts
	BK/RD	PVC	BU/WH	PE	11.3 mm	18 AWG		
58312661-*M	2/15AWG	3.44 Ohms	2/18 AWG	7.06 Ohms	PVC Grey	Foil/Braid	High flex	0027 75°C 300 Volts
	BK/RD	PE	BU/WH	PE	13.7 mm	18 AWG		

M12 DeviceNet™ Pre-moulding Connector

- Plug body:TPU/Blue
- Coupling nut:Brass/Nickel
- Contact carrier:TPU/Black
- Pin:Brass/Gold
- O-ring:FPM/FKM
- IP degree:IP67
- Rated current:4A
- Rated voltage:250V
- Insulation resistance: $\geq 10^9 \Omega$
- Forward resistance: $\leq 5m\Omega$
- Pollution degree:3
- Temperature range:-40...+75°C
- Mechanical operation: ≥ 100



Pre-moulding Connector	Type NO.	ID NO.	Pinout
Straight Female ENK..** 	ENK5-2M/10 ENK5-5M/10 ENK5-10M/10	10013000 10013015 10013018	Female
Right angle Female ENLK..** 	ENLK5-2M/10 ENLK5-5M/10 ENLK5-10M/10	10013010 10013031 10012038	
Straight Male ENZ..** 	ENZ5-2M/10 ENZ5-5M/10 ENZ5-10M/10	10013020 10013021 10016570	Male
Right angle Male ENLZ..** 	ENLZ5-2M/10 ENLZ5-5M/10 ENLZ5-10M/10	10013030 10016571 10016572	
	ENK5 ENZ5-2M/10 ENK5 ENZ5-5M/10 ENK5 ENZ5-10M/10	10013404 10013046 10016573	
	ENK5 ENLZ5-2M/10 ENK5 ENLZ5-5M/10 ENK5 ENLZ5-10M/10	10013050 10013051 10016574	1.Shield 2.RD (V+) 3.BK (V-) 4.WH (CAN_H) 5.BU (CAN_L)
	ENLK5 ENZ5-2M/10 ENLK5 ENZ5-5M/10 ENLK5 ENZ5-10M/10	10013060 10016575 10016576	
	ENLK5 ENLZ5-2M/10 ENLK5 ENLZ5-5M/10 ENLK5 ENLZ5-10M/10	10013070 10012039 10013071	1.Shield 2.RD (V+) 3.BK (V-) 4.WH (CAN_H) 5.BU (CAN_L)

* Standard cable lengths are 2/5/10M, Consult factory for other lengths

** Standard coupling nut material is nickel plated brass

7/8" DeviceNet™ Thick Cable Pre-moulding Connector

- Plug body:TPU/Bule
- Coupling nut:Brass/Nickel
- Contact carrier:TPU/Black
- Pin:Brass/Gold
- O-ring:FPM/FKM
- IP degree:IP67
- Rated current:9A
- Rated voltage:600V
- Insulation resistance: $\geq 10^9 \Omega$
- Forward resistance: $\leq 5m\Omega$
- Pollution degree:3
- Temperature range:-40...+75°C
- Mechanical operation: ≥ 100



Pre-moulding Connector	Type NO.	ID NO.	Pinout
Straight Female MNK..**	MNK5-2M MNK5-5M MNK5-10M	10031000 10031028 10031027	Female
Right angle Female MNLK..**	MNLK5-2M MNLK5-5M MNLK5-10M	10031010 10030662 10030663	
Straight Male MNZ..**	MNZ5-2M MNZ5-5M MNZ5-10M	10031020 10030605 10030602	Male
Right angle Male MNLZ..**	MNLZ5-2M MNLZ5-5M MNLZ5-10M	10031030 10030664 10030665	
	MNK5 MNZ5-2M MNK5 MNZ5-5M MNK5 MNZ5-10M	10031040 10031041 10031042	
	MNK5 MNLZ5-2M MNK5 MNLZ5-5M MNK5 MNLZ5-10M	10030666 10030667 10030668	1.Shield 2.RD (V+) 3.BK (V-) 4.WH (CAN_H) 5.BU (CAN_L)
	MNLK5 MNZ5-2M MNLK5 MNZ5-5M MNLK5 MNZ5-10M	10031060 10030669 10030671	
	MNLK5 MNLZ5-2M MNLK5 MNLZ5-5M MNLK5 MNLZ5-10M	10031070 10030672 10030673	1.Shield 2.RD (V+) 3.BK (V-) 4.WH (CAN_H) 5.BU (CAN_L)

* Standard cable lengths are 2/5/10M, Consult factory for other lengths

** Standard coupling nut material is nickel plated brass

7/8" DeviceNet™ Thin Cable Pre-moulding Connector

- Plug body:TPU/Bule
- Coupling nut:Brass/Nickel
- Contact carrier:TPU/Black
- Pin:Brass/Gold
- O-ring:FPM/FKM
- IP degree:IP67
- Rated current:4A
- Rated voltage:300V
- Insulation resistance: $\geq 10^9 \Omega$
- Forward resistance: $\leq 5m\Omega$
- Pollution degree:3
- Temperature range:-40...+75°C
- Mechanical operation: ≥ 100



Pre-moulding Connector	Type NO.	ID NO.	Pinout
Straight Female MNK..** 	MNK5-2M/10 MNK5-5M/10 MNK5-10M/10	10030600 10030601 10085043	Female
Right angle Female MNLK..** 	MNLK5-2M/10 MNLK5-5M/10 MNLK5-10M/10	10030610 10030675 10030676	
Straight Male MNZ..** 	MNZ5-2M/10 MNZ5-5M/10 MNZ5-10M/10	10030620 10031033 10030677	Male
Right angle Male MNLZ..** 	MNLZ5-2M/10 MNLZ5-5M/10 MNLZ5-10M/10	10030630 10030624 10030678	
	MNK5 MNZ5-2M/10 MNK5 MNZ5-5M/10 MNK5 MNZ5-10M/10	10030640 10030641 10030642	
	MNK5 MNLZ5-2M/10 MNK5 MNLZ5-5M/10 MNK5 MNLZ5-10M/10	10030650 10030621 10030679	1.Shield 2.RD (V+) 3.BK (V-) 4.WH (CAN_H) 5.BU (CAN_L)
	MNLK5 MNZ5-2M/10 MNLK5 MNZ5-5M/10 MNLK5 MNZ5-10M/10	10030660 10030680 10030661	
	MNLK5 MNLZ5-2M/10 MNLK5 MNLZ5-5M/10 MNLK5 MNLZ5-10M/10	10030670 10031073 10030681	1.Shield 2.RD (V+) 3.BK (V-) 4.WH (CAN_H) 5.BU (CAN_L)

* Standard cable lengths are 2/5/10M, Consult factory for other lengths

** Standard coupling nut material is nickel plated brass

7/8" DeviceNet™ receptacle



Receptacle	Type NO.	ID NO.	Features	Pinout
<p>7/8" Front mount receptacle Thick Cable, Female</p>	FMNK52-2M/NPSM/G1	10049403	<p>2x15AWG+2x18AWG, 18 AWG Drain Foil , Braid PVC, Ø12mm Cable Type NO. : 58200332-*M -40°C ~ +80°C 600V 9A</p>	<p>Female</p> <p>1.BARE(SHIELD) 2.RED(+VOLTAGE) 3.BLACK(-VOLTAGE) 4.WHITE(CAN_H) 5.BLUE(CAN_L)</p>
<p>7/8" Front mount receptacle Thick Cable, Male</p>	FMNZ52-2M/NPSM/G1	10049453	<p>2x15AWG+2x18AWG, 18 AWG Drain Foil , Braid PVC, Ø12mm Cable Type NO. : 58200332-*M -40°C ~ +80°C 600V 9A</p>	<p>Male</p> <p>1.BARE(SHIELD) 2.RED(+VOLTAGE) 3.BLACK(-VOLTAGE) 4.WHITE(CAN_H) 5.BLUE(CAN_L)</p>
<p>7/8" Front mount receptacle Thin cable, Female</p>	FMNK52-2M/NPSM/G2	10049413	<p>4x22AWG 22AWG Drain Foil , Braid PVC, Ø7.9mm Cable Type NO. : 58221332-*M -40°C ~ +80°C 300V 4A</p>	<p>Female</p> <p>1.BARE(SHIELD) 2.RED(+VOLTAGE) 3.BLACK(-VOLTAGE) 4.WHITE(CAN_H) 5.BLUE(CAN_L)</p>
<p>7/8" Front mount receptacle Thin cable, Male</p>	FMNZ52-2M/NPSM/G2	10049463	<p>4x22AWG 22AWG Drain Foil , Braid PVC, Ø7.9mm Cable Type NO. : 58221332-*M -40°C ~ +80°C 300V 4A</p>	<p>Male</p> <p>1.BARE(SHIELD) 2.RED(+VOLTAGE) 3.BLACK(-VOLTAGE) 4.WHITE(CAN_H) 5.BLUE(CAN_L)</p>

7/8" DeviceNet™ receptacle



Receptacle	Type NO.	ID NO.	Features	Pinout
<p>7/8" Rear mount receptacle Thick Cable, female</p>	FMNK51-2M/M30/G1	10093289	<p>2x15AWG+2x18AWG 18 AWG Drain Foil , Braid PVC, Ø12mm Cable Type NO. : 58200332-*M -40°C ~ +80°C 600V 9A</p>	<p>Female</p> <p>1.BARE(SHIELD) 2.RED(+VOLTAGE) 3.BLACK(-VOLTAGE) 4.WHITE(CAN_H) 5.BLUE(CAN_L)</p>
<p>7/8" Rear mount receptacle Thick Cable, male</p>	FMNZ51-2M/M30/G1	10093290	<p>2x15AWG+2x18AWG 18 AWG Drain Foil , Braid PVC, Ø12mm Cable Type NO. : 58200332-*M -40°C ~ +80°C 600V 9A</p>	<p>Male</p> <p>1.BARE(SHIELD) 2.RED(+VOLTAGE) 3.BLACK(-VOLTAGE) 4.WHITE(CAN_H) 5.BLUE(CAN_L)</p>
<p>7/8" Rear mount receptacle Thin Cable, female</p>	FMNK51-2M/M30/G2	10093291	<p>4x22AWG 22AWG Drain Foil , Braid PVC, Ø7.9mm Cable Type NO. : 58221332-*M -40°C ~ +80°C 300V 4A</p>	<p>Female</p> <p>1.BARE(SHIELD) 2.RED(+VOLTAGE) 3.BLACK(-VOLTAGE) 4.WHITE(CAN_H) 5.BLUE(CAN_L)</p>
<p>7/8" Rear mount receptacle Thin Cable, male</p>	FMNZ51-2M/M30/G2	10093292	<p>4x22AWG 22AWG Drain Foil , Braid PVC, Ø7.9mm Cable Type NO. : 58221332-*M -40°C ~ +80°C 300V 4A</p>	<p>Male</p> <p>1.BARE(SHIELD) 2.RED(+VOLTAGE) 3.BLACK(-VOLTAGE) 4.WHITE(CAN_H) 5.BLUE(CAN_L)</p>

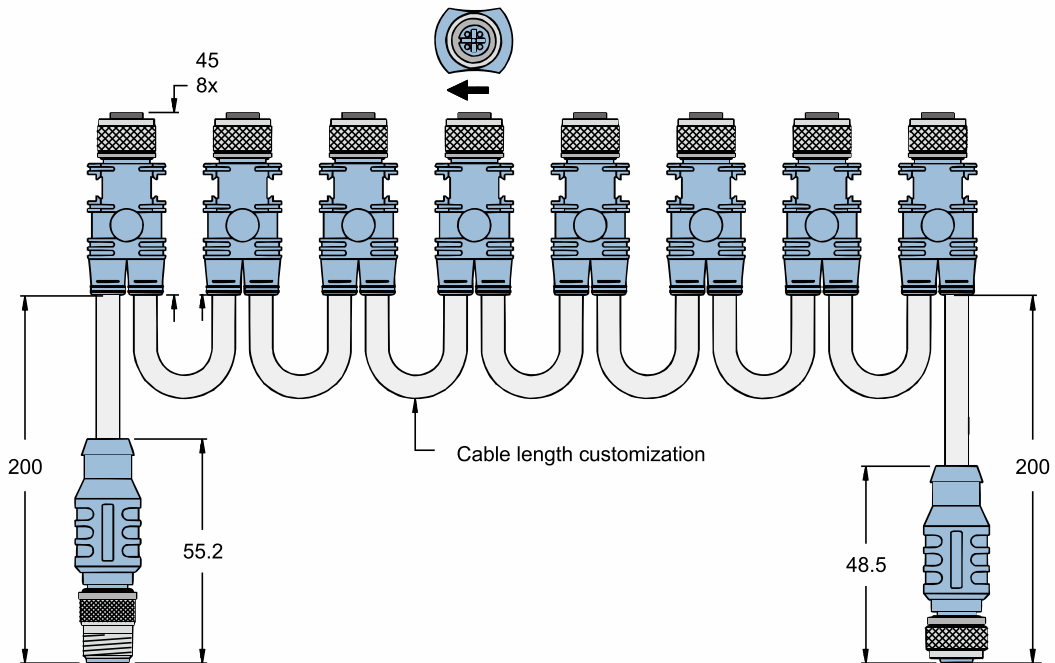
M12 DeviceNet™ Daisy Chain

- Multiple-branches construction,customizing according to customer demand
- Price advantage,compared with the scheme which splitter work in with double pre-moulding connector

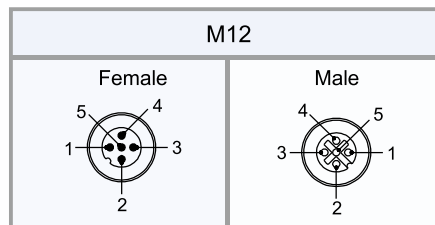


Type NO.	Features
ENZ5-8YK5-ENK5-0024-LDC	TPU,250V,4A,-40°to+75°C,Branch number,length, And M12 connector type is customized according to customer demand

Length is customized according to specific application environment



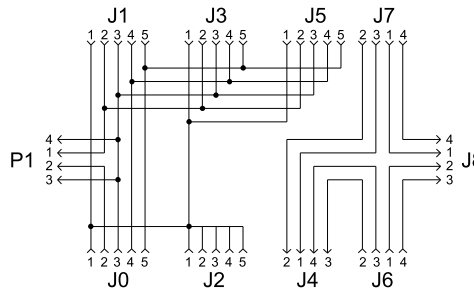
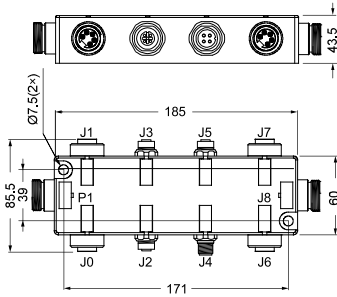
Pinout



- 6 ports, 8 ports
- Nylon with glass fiber housing
- 7/8"/M12 I/O interface
- IP67

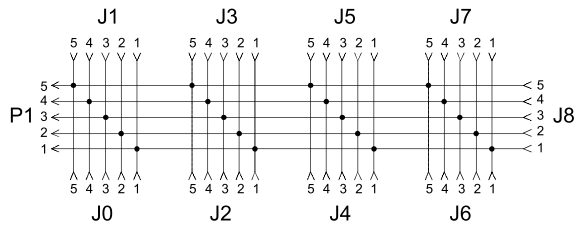
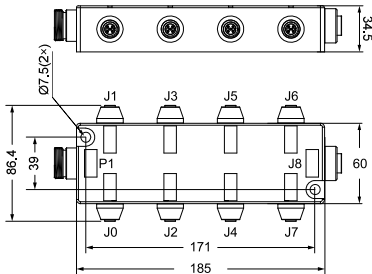


Type NO.	ID NO.	Features
JB8MENK-DN/ES	10074501	4 7/8" ports, 4 M12 ports, temperature range: -40°C to +75°C



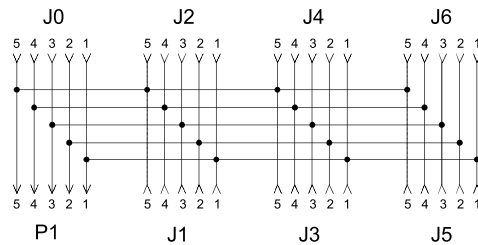
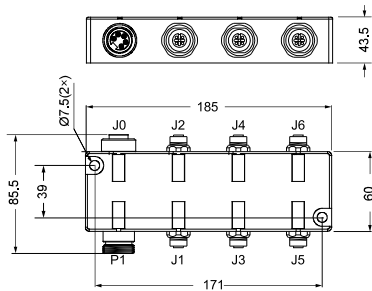
Circuit diagram

JB8ENK-DN	10074508	8 M12 ports, temperature range: -40°C to +75°C
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Circuit diagram

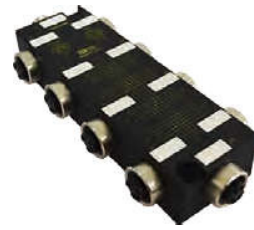
JB6ENK-DN	10074520	6 M12 ports, temperature range: -40°C to +75°C
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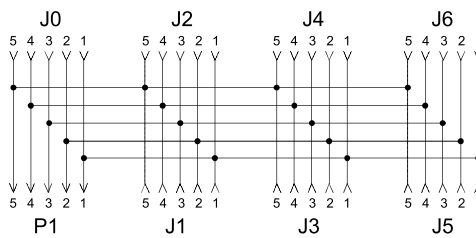
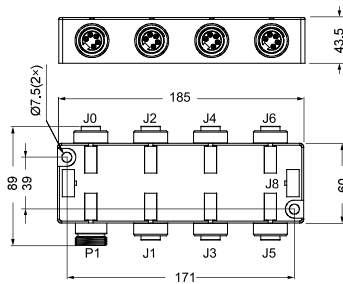
Circuit diagram

7/8" DeviceNet™ Junction box

- 4 ports 6 ports 8 ports
- Nylon with glass fiber housing
- 7/8" I/O interface
- IP67

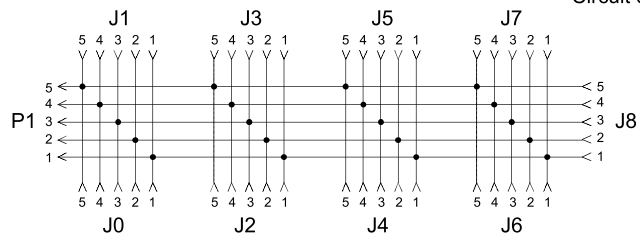
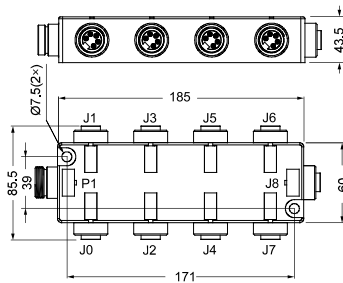


Type NO.	ID NO.	Features
JB6MNK-DN	10074504	6 7/8" ports, temperature range: -40°C to +75°C



Circuit diagram

Type NO.	ID NO.	Features
JB8MNK-DN	10074500	8 7/8" ports, temperature range: -40°C to +75°C



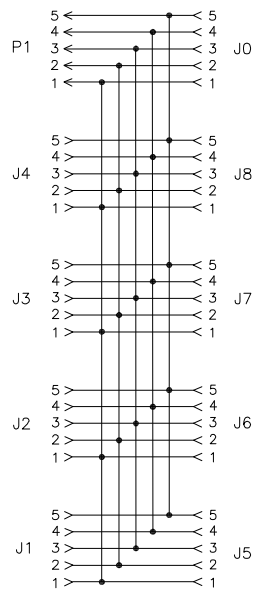
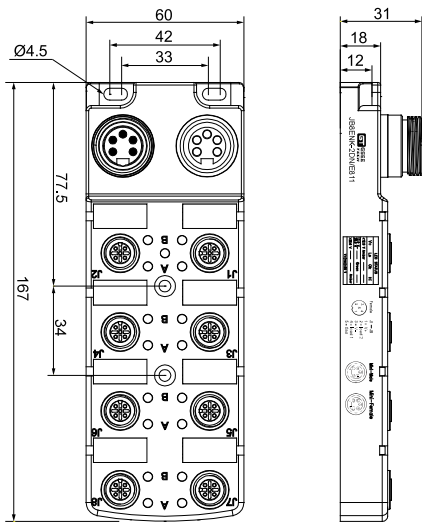
Circuit diagram

7/8" DeviceNet™ Junction box

- 8 ports
- Nylon with glass fiber housing
- 7/8" I/O interface
- IP67



Type NO.	ID NO.	Features
JB8ENK-2DN-E811	10074511	8 M12 ports, temperature range: -40°C to +75°C



Circuit diagram

7/8" DeviceNet™ Junction box

- 4 ports 6 ports 8 ports
- Cast aluminum housing
- 7/8" I/O interface
- IP67



Type NO.	ID NO.	Features
JBS4MKNK-DN	10074509	4 7/8" ports, temperature range: -40°C to +75°C
		Circuit diagram
JBS6MKNK-DN	10074510	6 7/8" ports, temperature range: -40°C to +75°C
		Circuit diagram
JBS8MKNK-DN	10074505	8 7/8" ports, temperature range: -40°C to +75°C
		Circuit diagram

7/8" Power Junction box

- 4 ports 6 ports 8 ports
- Cast aluminum housing
- 7/8" I/O interface
- IP67 IP degree

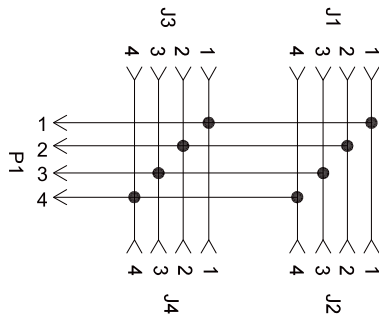
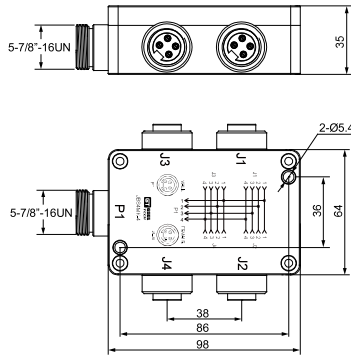


Type NO.	ID NO.	Features
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JBS4MK-4

10073177

4 7/8" ports, temperature range: -40°C to +75°C



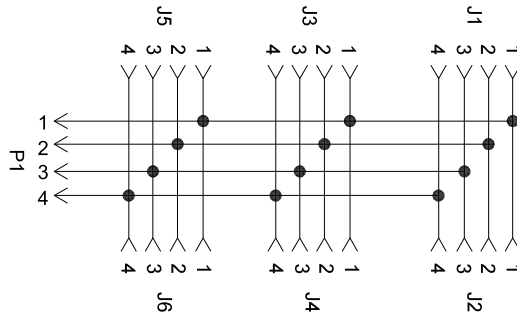
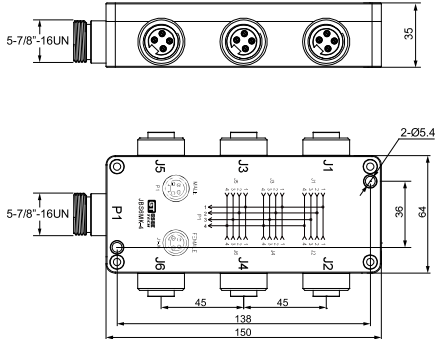
Circuit diagram

Type NO.	ID NO.	Features
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JBS6MK-4

10072023

6 7/8" ports, temperature range: -40°C to +75°C



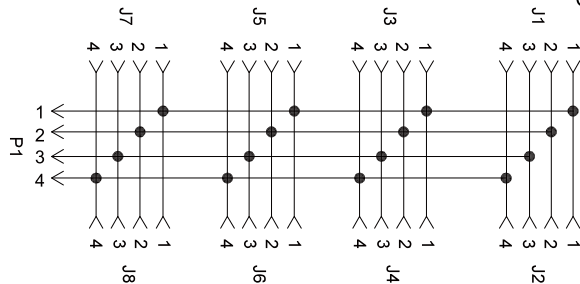
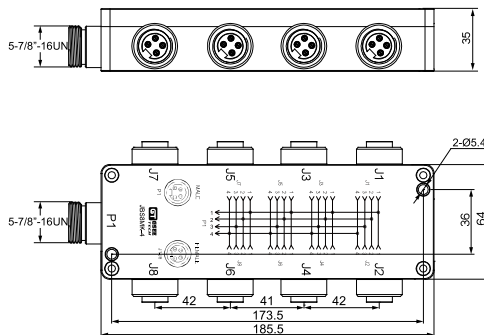
Circuit diagram

Type NO.	ID NO.	Features
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JBS8MK-4

10072024

8 7/8" ports, temperature range: -40°C to +75°C



Circuit diagram



T type and terminating resistors	Type NO.	ID NO.	Pinout
DeviceNet T type 	MNZ5-2MNK5	10082000	<p>1=Shield 2=RD(V+) 3=BK(V-) 4=WH(CAN_H) 5=BU(CAN_L)</p>
DeviceNet T type 	MNZ5-ENK5-MNK5	10082001	<p>1=Shield 2=RD(V+) 3=BK(V-) 4=WH(CAN_H) 5=BU(CAN_L)</p>
DeviceNet Splitter 	ENZ5-2ENK5-V	10082003	<p>1=Shield 2=RD(V+) 3=BK(V-) 4=WH(CAN_H) 5=BU(CAN_L)</p>
Terminating resistor M12x1 Male M12x1 Female 	ENZ5-TR ENK5-TR	10085010 10085011	<p>1=Shield 2=RD(V+) 3=BK(V-) 4=WH(CAN_H) 5=BU(CAN_L)</p>
Terminating resistor 7/8" Male 7/8" Female 	MNZ5-TR MNK5-TR	10085020 10085021	<p>1=Shield 2=RD(V+) 3=BK(V-) 4=WH(CAN_H) 5=BU(CAN_L)</p>
Terminating resistor with light 7/8" Male 7/8" Female 	MNZ5-TR/VM MNK5-TR/VM	10085025 10031034	<p>1=Shield 2=RD(V+) 3=BK(V-) 4=WH(CAN_H) 5=BU(CAN_L)</p>