

DeviceNet™ cordsets

These molded cordsets offer Thick and Thin connectivity in a DeviceNet™ application. LAPP solutions offer the ability to connect in a motion system such as X-Y-Z motion equipment. The stationary versions offer the same functionality as the flexing in terms of connectivity for an environment when continuous flexing is not required. Conveyor systems are a popular application for these cordsets.

Available configurations

- thick single-ended cordsets
- thick panel mount receptacles
- thick extension cordsets
- thick panel mount extension cordsets
- thin single-ended cordsets
- thin extension cordsets
- thin panel mount receptacles
- thin panel mount extension cordsets
- thin open-style termination cordsets

Technical data

Material:	
- contact carrier:	thermoplastic polyurethane; blue-gray
- molded head:	thermoplastic polyurethane; blue-gray*
- contacts:	gold-plated brass
- coupling nut:	nickel-plated brass
- shield:	foil (pairs) & overall tinned copper braid
- outer jacket:	PVC; gray
- conductor insulation:	
- for data:	polyethylene
- for power:	PVC

* color is typical, not standard

Temperature range:	-20°C to +75°C
---------------------------	----------------

Rated voltage:	
- DeviceNet™ 7/8":	300V
- DeviceNet™ M12:	250V

Rated current:	
- DeviceNet™ 7/8":	9A
- DeviceNet™ M12:	4A

Number of conductors:	
- DeviceNet™ 7/8":	incl. 18 AWG drain wire
- 6001:	14 AWG/1pr + 18 AWG/1pr
- 4001:	15 AWG/1pr + 18 AWG/1pr
- DeviceNet™ M12:	22 AWG/1pr + 24 AWG/1pr + 22 AWG drain wire

IP Protection class:	meets NEMA 1, 3, 4, 6, 13 & IEC IP67
-----------------------------	--------------------------------------

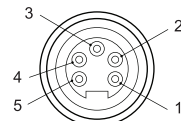
Cable type:	
- for stationary use:	UNITRONIC® BUS DeviceNet™ Gray, page 167
- for continuous flex:	UNITRONIC® BUS DeviceNet™ FD Gray, page 168



Pin outs

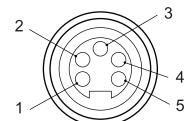
DeviceNet™ 7/8"

male



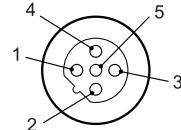
- 1 = bare (shield)
- 2 = red (+ voltage)
- 3 = black (- voltage)
- 4 = white (CAN_H)
- 5 = blue (CAN_L)

female



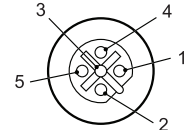
DeviceNet™ M12

male



- 1 = bare (shield)
- 2 = red (+ voltage)
- 3 = black (- voltage)
- 4 = white (CAN_H)
- 5 = blue (CAN_L)

female



Approvals

For approvals, inquire with our factory: 800-774-3539.

DeviceNet™ thick single-ended cordsets

5-pos. 7/8" connectors to flying leads


connector 1

male 7/8" straight connector

male 7/8" 90° connector

female 7/8" straight connector

female 7/8" 90° connector



Cable type	Part number	Page
stationary	4001	167
continuous flexing	6001	168

connector 2

flying leads

Connector 1	Connector 2	Part number	
		stationary	continuous flex
male 7/8" straight	flying leads	DN4110001Sxx	DN4110001Fxx
male 7/8" 90°	flying leads	DN4110002Sxx	DN4110002Fxx
female 7/8" straight	flying leads	DN4110003Sxx	DN4110003Fxx
female 7/8" 90°	flying leads	DN4110004Sxx	DN4110004Fxx

For part number, replace "xx" with the desired cable length in meters

DeviceNet™ thick panel mount receptacle cordsets

5-pos. 7/8" panel mount bulkheads to flying leads


connector 1

male 7/8" panel mount

male 7/8" bulkhead

female 7/8" panel mount

female 7/8" bulkhead



Cable type	Part number	Page
stationary	4001	167
continuous flexing	6001	168

connector 2

flying leads

Connector 1	Connector 2	Part number	
		stationary	continuous flex
male 7/8" panel mount	flying leads	DN4110005Sxx	DN4110005Fxx
male 7/8" bulkhead	flying leads	DN4110097Sxx	DN4110097Fxx
female 7/8" panel mount	flying leads	DN4110006Sxx	DN4110006Fxx
female 7/8" bulkhead	flying leads	DN4110098Sxx	DN4110098Fxx

For part number, replace "xx" with the desired cable length in meters

DeviceNet™ thick extension cordsets

5-pos. 7/8" connectors to 5-pos. 7/8" connectors


connector 1

male 7/8" straight connector

male 7/8" 90° connector

female 7/8" straight connector

female 7/8" 90° connector



UNITRONIC® DeviceNet™ THICK

Cable type	Part number	Page
stationary	4001	167
continuous flexing	6001	168

connector 2

male 7/8" straight connector

male 7/8" 90° connector

female 7/8" straight connector

female 7/8" 90° connector

Connector 1	Connector 2	Part number	
		stationary	continuous flex
male 7/8" straight	male 7/8" straight	DN4110052Sxx	DN4110052Fxx
male 7/8" straight	male 7/8" 90°	DN4110053Sxx	DN4110053Fxx
male 7/8" straight	female 7/8" straight	DN4110008Sxx	DN4110008Fxx
male 7/8" straight	female 7/8" 90°	DN4110009Sxx	DN4110009Fxx
male 7/8" 90°	male 7/8" 90°	DN4110054Sxx	DN4110054Fxx

For part number, replace "xx" with the desired cable length in meters

Connector 1	Connector 2	Part number	
		stationary	continuous flex
male 7/8" 90°	female 7/8" straight	DN4110010Sxx	DN4110010Fxx
male 7/8" 90°	female 7/8" 90°	DN4110011Sxx	DN4110011Fxx
female 7/8" straight	female 7/8" straight	DN4110055Sxx	DN4110055Fxx
female 7/8" straight	female 7/8" 90°	DN4110056Sxx	DN4110056Fxx
female 7/8" 90°	female 7/8" 90°	DN4110057Sxx	DN4110057Fxx

DeviceNet™ thick panel mount extension cordsets

5-pos. 7/8" connectors to 5-pos. 7/8" panel mount bulkheads


connector 1

male 7/8" straight connector

male 7/8" 90° connector

female 7/8" straight connector

female 7/8" 90° connector



UNITRONIC® DeviceNet™ THICK

Cable type	Part number	Page
stationary	4001	167
continuous flexing	6001	168

connector 2

male 7/8" bulkhead

female 7/8" bulkhead

Connector 1	Connector 2	Part number	
		stationary	continuous flex
male 7/8" straight	male 7/8" bulkhead	DN4110072Sxx	DN4110072Fxx
male 7/8" straight	female 7/8" bulkhead	DN4110017Sxx	DN4110017Fxx
male 7/8" 90°	male 7/8" bulkhead	DN4110073Sxx	DN4110073Fxx
male 7/8" 90°	female 7/8" bulkhead	DN4110018Sxx	DN4110018Fxx

For part number, replace "xx" with the desired cable length in meters

Connector 1	Connector 2	Part number	
		stationary	continuous flex
female 7/8" straight	male 7/8" bulkhead	DN4110015Sxx	DN4110015Fxx
female 7/8" straight	female 7/8" bulkhead	DN4110078Sxx	DN4110078Fxx
female 7/8" 90°	male 7/8" bulkhead	DN4110016Sxx	DN4110016Fxx
female 7/8" 90°	female 7/8" bulkhead	DN4110079Sxx	DN4110079Fxx

DeviceNet™ thin single-ended cordsets

5-pos. M 12 connectors to flying leads


connector 1

male M 12
straight connector

male M 12
90° connector

female M 12
straight connector

female M 12
90° connector



Cable type	Part number	Page
stationary	4002	167
continuous flexing	6002	168

connector 2

flying leads

Connector 1	Connector 2	Part number	
		stationary	continuous flex
male M 12 straight	flying leads	DN4110019Sxx	DN4110019Fxx
male M 12 90°	flying leads	DN4110020Sxx	DN4110020Fxx
female M 12 straight	flying leads	DN4110021Sxx	DN4110021Fxx
female M 12 90°	flying leads	DN4110022Sxx	DN4110022Fxx

For part number, replace "xx" with the desired cable length in meters


DeviceNet™ thin panel mount receptacle cordsets

5-pos. M 12 panel mount bulkheads to flying leads

connector 1

male M 12
bulkhead

female M 12
bulkhead



Cable type	Part number	Page
stationary	4002	167
continuous flexing	6002	168

connector 2

flying leads

Connector 1	Connector 2	Part number	
		stationary	continuous flex
male M 12 bulkhead	flying leads	DN4110040Sxx	DN4110040Fxx
female M 12 bulkhead	flying leads	DN4110039Sxx	DN4110039Fxx

For part number, replace "xx" with the desired cable length in meters

DeviceNet™ thin extension cordsets

5-pos. 7/8" connectors to 5-pos. M12 connectors


connector 1

male 7/8" straight connector

male 7/8" 90° connector

female 7/8" straight connector

female 7/8" 90° connector



Cable type	Part number	Page
stationary	4002	167
continuous flexing	6002	168

connector 2

male M12 straight connector

male M12 90° connector

female M12 straight connector

female M12 90° connector

Connector 1	Connector 2	Part number	
		stationary	continuous flex
male 7/8" straight	male M12 straight	DN4110058Sxx	DN4110058Fxx
male 7/8" straight	male M12 90°	DN4110061Sxx	DN4110061Fxx
male 7/8" straight	female M12 straight	DN4110027Sxx	DN4110027Fxx
male 7/8" straight	female M12 90°	DN4110028Sxx	DN4110028Fxx
male 7/8" 90°	male M12 straight	DN4110059Sxx	DN4110059Fxx
male 7/8" 90°	male M12 90°	DN4110062Sxx	DN4110062Fxx
male 7/8" 90°	female M12 straight	DN4110029Sxx	DN4110029Fxx
male 7/8" 90°	female M12 90°	DN4110030Sxx	DN4110030Fxx

For part number, replace "xx" with the desired cable length in meters

Connector 1	Connector 2	Part number	
		stationary	continuous flex
female 7/8" straight	male M12 straight	DN4110031Sxx	DN4110031Fxx
female 7/8" straight	male M12 90°	DN4110032Sxx	DN4110032Fxx
female 7/8" straight	female M12 straight	DN4110065Sxx	DN4110065Fxx
female 7/8" straight	female M12 90°	DN4110068Sxx	DN4110068Fxx
female 7/8" 90°	male M12 straight	DN4110033Sxx	DN4110033Fxx
female 7/8" 90°	male M12 90°	DN4110034Sxx	DN4110034Fxx
female 7/8" 90°	female M12 straight	DN4110066Sxx	DN4110066Fxx
female 7/8" 90°	female M12 90°	DN4110069Sxx	DN4110069Fxx

DeviceNet™ thin extension cordsets

5-pos. M12 connectors to 5-pos. M12 connectors


connector 1

male M12 straight connector

male M12 90° connector

female M12 straight connector

female M12 90° connector



Cable type	Part number	Page
stationary	4002	167
continuous flexing	6002	168

connector 2

male M12 straight connector

male M12 90° connector

female M12 straight connector

female M12 90° connector








Connector 1	Connector 2	Part number	
		stationary	continuous flex
male M12 straight	male M12 straight	DN4110060Sxx	DN4110060Fxx
male M12 straight	male M12 90°	DN4110063Sxx	DN4110063Fxx
male M12 straight	female M12 straight	DN4110023Sxx	DN4110023Fxx
male M12 straight	female M12 90°	DN4110024Sxx	DN4110024Fxx
male M12 90°	male M12 90°	DN4110064Sxx	DN4110064Fxx

For part number, replace "xx" with the desired cable length in meters

Connector 1	Connector 2	Part number	
		stationary	continuous flex
male M12 90°	female M12 straight	DN4110025Sxx	DN4110025Fxx
male M12 90°	female M12 90°	DN4110026Sxx	DN4110026Fxx
female M12 straight	female M12 straight	DN4110067Sxx	DN4110067Fxx
female M12 straight	female M12 90°	DN4110070Sxx	DN4110070Fxx
female M12 90°	female M12 90°	DN4110071Sxx	DN4110071Fxx

DeviceNet™ thin panel mount extension cordsets

5-pos. 7/8" connectors to 5-pos. M12 panel mount bulkheads








male 7/8" straight connector		connector 1  <table border="1"> <thead> <tr> <th>Cable type</th> <th>Part number</th> <th>Page</th> </tr> </thead> <tbody> <tr> <td>stationary</td> <td>4002</td> <td>167</td> </tr> <tr> <td>continuous flexing</td> <td>6002</td> <td>168</td> </tr> </tbody> </table>	Cable type	Part number	Page	stationary	4002	167	continuous flexing	6002	168		male M12 bulkhead
Cable type	Part number		Page										
stationary	4002		167										
continuous flexing	6002		168										
male 7/8" 90° connector			female M12 bulkhead										
female 7/8" straight connector													
female 7/8" 90° connector													

Connector 1	Connector 2	Part number	
		stationary	continuous flex
male 7/8" straight	male M12 bulkhead	DN4110085Sxx	DN4110085Fxx
male 7/8" straight	female M12 bulkhead	DN4110091Sxx	DN4110091Fxx
male 7/8" 90°	male M12 bulkhead	DN4110086Sxx	DN4110086Fxx
male 7/8" 90°	female M12 bulkhead	DN4110092Sxx	DN4110092Fxx
female 7/8" straight	male M12 bulkhead	DN4110087Sxx	DN4110087Fxx
female 7/8" straight	female M12 bulkhead	DN4110093Sxx	DN4110093Fxx
female 7/8" 90°	male M12 bulkhead	DN4110088Sxx	DN4110088Fxx
female 7/8" 90°	female M12 bulkhead	DN4110094Sxx	DN4110094Fxx

For part number, replace "xx" with the desired cable length in meters

DeviceNet™ thin panel mount extension cordsets

5-pos. M12 connectors to 5-pos. 7/8" panel mount bulkheads

male M12 straight connector		connector 1  <table border="1"> <thead> <tr> <th>Cable type</th> <th>Part number</th> <th>Page</th> </tr> </thead> <tbody> <tr> <td>stationary</td> <td>4002</td> <td>167</td> </tr> <tr> <td>continuous flexing</td> <td>6002</td> <td>168</td> </tr> </tbody> </table>	Cable type	Part number	Page	stationary	4002	167	continuous flexing	6002	168		male 7/8" bulkhead
Cable type	Part number		Page										
stationary	4002		167										
continuous flexing	6002		168										
male M12 90° connector			female 7/8" bulkhead										
female M12 straight connector													
female M12 90° connector													

Connector 1	Connector 2	Part number	
		stationary	continuous flex
male M12 straight	male 7/8" bulkhead	DN4110074Sxx	DN4110074Fxx
male M12 straight	female 7/8" bulkhead	DN4110080Sxx	DN4110080Fxx
male M12 90°	male 7/8" bulkhead	DN4110075Sxx	DN4110075Fxx
male M12 90°	female 7/8" bulkhead	DN4110081Sxx	DN4110081Fxx
female M12 straight	male 7/8" bulkhead	DN4110076Sxx	DN4110076Fxx
female M12 straight	female 7/8" bulkhead	DN4110082Sxx	DN4110082Fxx
female M12 90°	male 7/8" bulkhead	DN4110077Sxx	DN4110077Fxx
female M12 90°	female 7/8" bulkhead	DN4110083Sxx	DN4110083Fxx

For part number, replace "xx" with the desired cable length in meters

DeviceNet™ thin panel mount extension cordsets

5-pos. M12 connectors to 5-pos. M12 panel mount bulkheads

connector 1

male M12 straight connector

male M12 90° connector

female M12 straight connector

female M12 90° connector

UNITRONIC® DeviceNet™ THIN

Cable type	Part number	Page
stationary	4002	167
continuous flexing	6002	168

connector 2

male M12 bulkhead

female M12 bulkhead

Connector 1	Connector 2	Part number	
		stationary	continuous flex
male M12 straight	male M12 bulkhead	DN4110089Sxx	DN4110089Fxx
male M12 straight	female M12 bulkhead	DN4110037Sxx	DN4110037Fxx
male M12 90°	male M12 bulkhead	DN4110090Sxx	DN4110090Fxx
male M12 90°	female M12 bulkhead	DN4110038Sxx	DN4110038Fxx
female M12 straight	male M12 bulkhead	DN4110035Sxx	DN4110035Fxx
female M12 straight	female M12 bulkhead	DN4110095Sxx	DN4110095Fxx
female M12 90°	male M12 bulkhead	DN4110036Sxx	DN4110036Fxx
female M12 90°	female M12 bulkhead	DN4110096Sxx	DN4110096Fxx

For part number, replace "xx" with the desired cable length in meters

DeviceNet™ thin open style termination cordsets

5-pos. 7/8" or M12 panel mount bulkheads to 5-pos. plug header

connector 1

male 7/8" straight connector

male 7/8" bulkhead

male M12 straight connector

male M12 bulkhead

flying leads

UNITRONIC® DeviceNet™ THIN

Cable type	Part number	Page
stationary	4002	167
continuous flexing	6002	168

connector 2

plug header

Connector 1	Connector 2	Part number	
		stationary	continuous flex
%\" to plug header			
male %\" straight	plug header	DN4110046Sxx	DN4110046Fxx
male %\" bulkhead	plug header	DN4110050Sxx	DN4110050Fxx
M12 to plug header			
male M12 straight	plug header	DN4110048Sxx	DN4110048Fxx
male M12 bulkhead	plug header	DN4110049Sxx	DN4110049Fxx
Flying leads to plug header			
flying leads	plug header	DN4110047Sxx	DN4110047Fxx

For part number, replace "xx" with the desired cable length in meters