



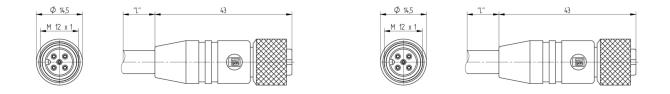
Product: <u>0935 253 110</u> ☑

CANopen / DeviceNet Data Double-Ended Cordset: Female straight A-coded black M12 Standard to female straight A-coded black M12 Standard, 50 V AC / 60 V DC, 4 A; PUR black cable, 4-wires, Data: 2x0.25 mm² + Power: 2x0.34 mm²

Product Description

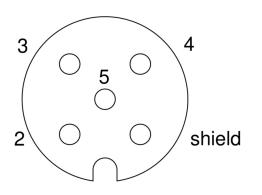
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Technical Drawing



Female





Technical Specifications

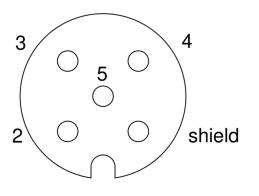
Face View Side 1

Pin 1	Pin 2	Pin 3	Pin 4	Pin 5
shield	red	black	white	blue

Face View Side 2

 Pin 1
 Pin 2
 Pin 3
 Pin 4
 Pin 5

 shield
 red
 black
 white
 blue



Product Description

Product Family:	Data Connectors
Brand:	Lumberg Automation
Connector Type:	Cordset, double ended
Shielding:	Unshielded
Rated Voltage:	60 V
Rated Impulse Voltage:	1.5 kV
Operating Voltage:	50 V AC / 60 V DC
Rated Current*:	4 A
Data Transmission:	CANopen / DeviceNet

Technical Data Side 1

Packa ShamiKalandaType Carda CardaFinalConcordo cardaFinalAtaman YangSinalAtaman YangSinalColaciona CardaSinalColaciona Carda <th></th> <th></th>		
Concender DesignerHandleConcender DesignerSindeAuchamen TypeGualing NuklNumber DesignerSindeConcender BeilerSindeConcender BeilerSindeConcender BeilerSindeAuchan CharlerSindeSinde DesignerSindeAuster DesignerSindeAuster DesignerSindeProteinSindeAuster DesignerSindeProteinSindeAuster DesignerSindeProteinSindeAuster DesignerSindeAuster DesignerSindeProteinSindeAuster DesignerSindeAuster DesignerSind	Product Sub Family:	M12 Standard
Atachmen Type:Coujing NutNumber of Pins:5Coding:AContarge:10 mCInsulation Resistance:10 mCInsulation Resistance:10 mCPolocion Derger / Pick:100-Contarger / Pick:FE/ FC/ FC/ BK (m / 24 h), FC/ FCPolocion Derger / Pick:FE/ FC/ FC/ BK (m / 24 h), FC/ FCPolocion Derger / Pick:FE/ FC/ FC/ FC/ EK (m / 24 h), FC/ FCPolocion Derger / Pick:FE/ FC/ FC/ FC/ EK (m / 24 h), FC/ FCPolocion Derger / FCFE/ FC/ FC/ FC/ FC/ FC/ FC/ FC/ FC/ FC/ FC	Type of Contact / Gender:	Female
Numer of Press5Coding:ACoding CodingFConter Resistance:FProfend Resistance:FProfend Resistance:FCoding Coding C	Connector Design:	Straight
Cong:ACong:AConde Resistance:>100 GnuInsulation Resistance:>100 GnuAnding Cycles:>100 GnuAndieg Cycles:>100 GnuAndreig Cycles:>100 GnuAndreig Cycles:>100 GnuAndreig Cycles:>100 GnuProtection Dagree:>100 GnuPolation Dagree:>100 GnuPolation Dagree:>100 En Die Nöede 4 (VDE 0110-1)Concle Resider:>100 En Die Nöede 4 (VDE 0110-1)Concle Resider: <t< td=""><td>Attachment Type:</td><td>Coupling Nut</td></t<>	Attachment Type:	Coupling Nut
Cond Resistance:InmohinInsulation Resistance:> 10% OhmMaing Cycles:> 10% OhmAmbier Temperature (perator):> 10% OhmProtection Degree / IP Ration:> 10% Ohm CharamatoriaProtection Degree / IP Ration:> 10% Ohm Charamatoria	Number of Pins:	5
Islation Resistance: > 10°9 Ohm Islation Resistance: > 10°9 Ohm Mating Cycles: > 50° Admog Cycles: > 50° Oberge Tyles: > 50° Polacion Dagre V/B > 50° Descion Dagre V/B > 50° Polacion Dagre V/B > 50°	Coding:	A
Atlang Cycles: a i Albient Temperatur (Deperation)* a </td <td>Contact Resistance:</td> <td>≤ 10 mOhm</td>	Contact Resistance:	≤ 10 mOhm
Anbehr Temperatur (Operation)*: 4º C + 80 °C Protein Degree / IP ator 40 °C + 80 °C Protein Degree / IP ator 165. IP 67. IP 68 (1 m / 24 h). IP 69K Design Standard: IP 60. IP 67. IP 68 (1 m / 24 h). IP 69K Design Standard: IP 60. IP 67. IP 68 (1 m / 24 h). IP 69K Or ator Standard: IP 60. IP	Insulation Resistance:	> 10^9 Ohm
(Operation)*: (% C * C * C * C * C * C * C * C * C * C	Mating Cycles:	≤ 100
Design Standard:EC 61076-2-101Pollution Degree:3acc. to DIN EN 60664-1 (VDE 0110-1)Overvoltage Category:II acc. to DIN EN 60664-1 (VDE 0110-1)Contact Base Material:CoNaContact Base Material:UAuContact Baser Material:TUSchatz Baser Material:PUContact Baser Naterial:IVMolded Body Material:UL 94 HBMolded Body Material:PUMolded Body Otor:BackFamability Class (Molded)UL 94 HBMolded Rody Color:UL 94 HBAtachment Material:CutAtachment Material:CutMolded Rody Color:BackFamability Class (Molded)UL 94 HBAtachment Material:CutAtachment Material:CutMolded Rody Color:BackFatening TorqueMick-JatelKitachment YMick-JatelKitachment YMick-Jatel	Ambient Temperature (Operation)*:	- 40 °C - + 80 °C
Polluo 3 acc. to DIN EN 60664-1 (VDE 0110-1) Overvoltage Category: III acc. to DIN EN 60664-1 (VDE 0110-1) Contact Base Material: CuSn Contact Plating: CuAu Contact Bearer Material: FUP Contact Bearer Material: FUP Contact Bearer Color: Back Flammability Class (Obd) FUP Molded Body Color: FUP Flammability Class (Mold) FUP Attachment Material: CuZ Attachment Plating: CuZ Attachment Plating: CuZ	Protection Degree / IP Rating**	: IP65, IP67, IP68 (1 m / 24 h), IP69K
Overvoltage Category: II acc. to DIN EN 60664-1 (VDE 0110-1) Contact Base Material: CuSn Contact Plating: CuAu Contact Plating: CuAu Contact Bearer Material: TPU Contact Bearer Material: Bick Contact Bearer Color: Bick Flammability Class Contact FU Nolded Body Material: TU Flammability Class Contact Fu Flammability Class Contact Bick Katchment Material: CuS Attachment Material: CuZi Attachment Plating: Nick-Iplated Katchment Plating: Nick-Iplated	Design Standard:	IEC 61076-2-101
Contact Base Material:CuSnContact Plating:Cu/AuContact Plating:TPUContact Baser Material:TPUContact Baser Color:BlackEarmability Class (Contact Bearer):U 94 HBMolded Body Material:TPUMolded Body Color:BlackBackStachKatchment Material:U 94 HBAttachment Plating:CuZnAttachment Plating:Nicki-platedFastening Torque Rtachment:M 12x1: (50-60) Ncm, hand-tight	Pollution Degree:	3 acc. to DIN EN 60664-1 (VDE 0110-1)
Contact Plating:Contact Plating:Contact Plating:TPUContact Bearer Material:TPUContact Bearer Color:BlackEarnenbility Class (Contact Bearer):U 94 HBMolded Body Material:TPUMolded Body Color:BlackEarnenbility Class (Molded)BlackKatchment Material:L 94 HBAttachment Plating:Nokel-platedAttachment Plating:Nickle-platedFastening Torque (Katchment):M 121: (50-60) Ncm, hand-tight	Overvoltage Category:	III acc. to DIN EN 60664-1 (VDE 0110-1)
Contact Bearer Material:FUContact Bearer Material:BiakaContact Dearer Color:BiakaFlammability Class (Contact Bearer):U 9 4 HBNolded Body Material:FUMolded Body Material:FUBiakaSacAMolded Body Solor:BiakaMolded Body Material:U 9 4 HBMolded Body Material:U 9 4 HBAttachment Material:CanactAttachment Plating:NiceI-platedAttachment Plating:NiceI-platedFastening Torgue Chattachment:NiceI-platedMaterian:NiceI-platedFastening Torgue Chattachment:NiceI-plated	Contact Base Material:	CuSn
Contact Bearer Color:BiakElammability Class (Contact Bearer):U. 94 HBNolded Body Material:TPUMolded Body Color:BiakBiakU. 94 HBContact Material:U. 94 HBContact Material:U. 94 HBAttachment Material:VariantAttachment Plating:Nole-platedFastening Torque (Ktachment):Material:Material:Material:Material:Material:Material:Naterial:Material:Naterial:Material:Naterial:Material: <tr< td=""><td>Contact Plating:</td><td>Cu/Au</td></tr<>	Contact Plating:	Cu/Au
FunctionFlameability Class (ContationModed Body MaterialFUModed Body ColorBackFlameability Class (MoldedGyber (Contation)La BackClass (Molded Body Color)Stachment MaterialClass (Solor)Molded Body Color)Stachment Plating:Molded Body Color)Stachment Plating:Molded Body Color)Stachment Plating:Molded Body Color)Molded Body Color)Stachment Plating:Molded Body Color)Molded Bod	Contact Bearer Material:	TPU
Bearer): DC 94 HB Molded Body Material: TPU Molded Body Color: Black Flammability Class (Molded Body): U 94 HB Attachment Material: C/Zn Attachment Plating: Nickel-plated Fastening Torque Kandement: M 12x1: (50-60) Ncm, hand-tight	Contact Bearer Color:	Black
Moded Body Color: Back Flammability Class (Molded Body): U 94 HB Attachment Material: CZ Attachment Plating: Nickel-plated Fastening Torque (Attachment): M 12x1: (50-60) Ncm, hand-tight		UL 94 HB
Flammability Class (Molde Body): UL 94 HB Attachment Material: CuZn Attachment Plating: Nickel-plated Fastening Torque (Attachment): M 12x1: (50-60) Ncm, hand-tight	Molded Body Material:	TPU
Body): Description Attachment Material: CuZn Attachment Plating: Nickel-plated Fastening Torque (Attachment): M 12x1: (50-60) Ncm, hand-tight	Molded Body Color:	Black
Attachment Plating: Nickel-plated Fastening Torque (Attachment): M 12x1: (50-60) Ncm, hand-tight	Flammability Class (Molded Body):	UL 94 HB
Fastening Torque (Attachment): M 12x1: (50-60) Ncm, hand-tight	Attachment Material:	CuZn
(Attachment):	Attachment Plating:	Nickel-plated
Note: Do not connect or disconnect under load.	Fastening Torque (Attachment):	M 12x1: (50-60) Ncm, hand-tight
	Note:	Do not connect or disconnect under load.

Cable Data

Cable Number:	253	
Conductor Size:	Data: 2x0.25 mm ² + Power: 2x0.34 mm ²	
Number of Wires:	4	
Minimal Bending Radius (Fixed Inst):	> 5 x D	
Minimal Bending Radius (Flexible Inst):	> 10 x D	
Cycles (Bending):	>1 M	
Conductor material:	Cu	
Cable Jacket Material:	PUR	
Cable Jacket Color:	black matt similarly RAL 9005	
Cable Diameter D:	ø 6.70 ± 0.20 mm	
Wire Insulation Material:	Data: PE + Power: PE or PP	
Insulated Wire Diameter:	Data: ø 2.05 ± 0.10 mm + Power: ø 1.40 ± 0.05 mm	
Overall Shield (Cable):	Cu-ETP1 tinned	

Element Shield:	Al-PT Foil	
Foil shield:	Al-PT Foil	
Ambient Temperature (Fixed Installation):	- 50 °C - + 80 °C	
Ambient Temperature (Flex Installation):	- 25 °C - + 80 °C	
Ambient Temperature (Drag Chain Inst):	- 25 °C - + 60 °C	
UL Cable Type:	AWM: 20549 or 21198	
Flammability Class (Cable Jacket):	DIN EN 60332-1-2, VDE 0482-332-1-2, IEC 60332-1-2, UL VW-1, CSA FT-1	
Cable Characteristics:	Exclusion of dangerous materials; Line construction acc. CAN-Bus and DeviceNET specification; Good microbes and hydrolysis resistance; Mainly plasticizer diffusion free; Good chemical and oil resistance; Exclusion of PVC and Silicone; Free of lacquer wetting disturbing substances; Coldness flexibility	
Core Colors:	Data: blue, white + Power: red, black	

Technical Data Side 2

Product Sub Family, Side 2:	M12 Standard
Type of Contact / Gender, Side 2:	Female
Connector Design, Side 2:	Straight
Attachment Type, Side 2:	Coupling Nut
Number of Pins, Side 2:	5
Coding, Side 2:	A
Contact Resistance, Side 2:	≤ 10 mOhm
Insulation Resistance, Side 2:	> 10^9 Ohm
Mating Cycles, Side 2:	≤ 100
Ambient Temperature (Operation), Side 2*:	- 40 °C - + 80 °C
Protection Degree / IP Rating, Side 2**:	IP65, IP67, IP68 (1 m / 24 h), IP69K
Design Standard, Side 2:	IEC 61076-2-101
Pollution Degree, Side 2:	3 acc. to DIN EN 60664-1 (VDE 0110-1)
Overvoltage Category, Side 2:	III acc. to DIN EN 60664-1 (VDE 0110-1)
Contact Base Material, Side 2:	CuSn
Contact Plating, Side 2:	Cu/Au
Contact Bearer Material, Side 2:	TPU
Contact Bearer Color, Side 2:	Black
Flammability Class (Contact Bearer), Side 2:	UL 94 HB
Molded Body Material, Side 2:	TPU
Molded Body Color, Side 2:	Black
Flammability Class (Molded Body), Side 2:	UL 94 HB
Attachment Material, Side 2:	CuZn
Attachment Plating, Side 2:	Nickel-plated
Fastening Torque (Attachment), Side 2:	M 12x1: (50-60) Ncm, hand-tight

Safety & Environmental Compliance

RoHS Compliant:	yes	
Resistances		
Halogenfree:	DIN EN 50267-2-1, IEC 60754-1, VDE 0482-267-2-1	
Notes		
Protection Degree / IP Rating Note:	** only if mounted and locked in combination with Hirschmann / Lumberg Automation connector.	
Note Derating:	Notice derating	
History		
Update and Revision:	Revision Number: 0.65 Revision Date: 03-22-2023	
Variants		

Variants

Item #	Item Description	Cable Length
109639	0935 253 110/0,15 M	0.15 m
934636755	0935 253 110/1 M	1 m

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