

M12 male 0° A-cod. with cable

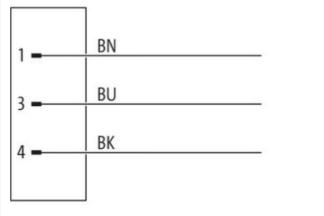
PVC 3x0.34 bk UL/CSA 3m

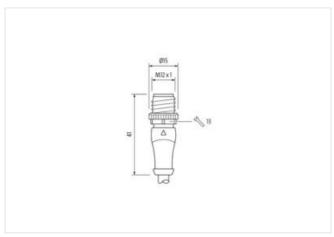
Male straight M12, 3-pole Art-No. 7005 - M12 Lite - (plastic hexagonal screw) on request with cable sleeves Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

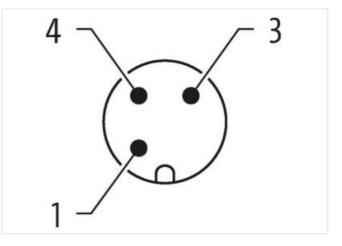
Link to Product

Illustration









Product may differ from Image



Cable length

Side 1

Tightening torque

The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-05-19

3 m

0,6 Nm

Murrelektronik Ltd. | 5 Albion Street, Pendlebury Industrial Estate, Swinton | Manchester M27 4FG | Fon +44 161 728 3133 | Fax +44 161 728 3130 | shop@murrelektronik.co.uk | shop.murrelektronik.co.uk



Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
suitable for corrugated tube (internal \emptyset)	10 mm
Coding	A
Material	PUR
No. of poles	3
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
Side 2	
Stripping length (jacket)	20 mm
Commercial data	
ECLASS-6.0	27279218
ECLASS-7.0	27279218
ECLASS-8.0	27279218
ECLASS-9.0	27060311
ECLASS-10.1	27060311
ECLASS-11.1	27060311
ECLASS-12.0	27060311
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879219204
Packaging unit	1
Electrical data Supply	
Operating voltage AC max.	250 V
Operating voltage DC max.	250 V
Operating voltage AC (UL-listed)	30 V
Operating voltage DC (UL-listed)	30 V
Current operating per contact max.	4 A
Installation Connection	
	20 mm
Stripping length (jacket)	20 mm
Mounting set	M12 x 1
Device protection Electrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	2,5 kV
Material group (IEC 60664-1)	I
Mechanical data Material data	
Coating locking	Nickeled
Coating of fitting	nickel plated
Locking material	Zinc die-casting
Material screw connection	Zinc die-casting
Mechanical data Mounting data	
Mounting method	inserted, screwed, Shaking protection
Environmental characteristics Climatic	
Operating temperature min.	-25 °C
Operating temperature max.	85 °C
Additional condition temperature range	depending on cable quality
Important installation notes	
Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
	Trotest the connectors by suitable measures non-mechanical loads, e.g. by the usage of cable ties.

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Note on bending radius

Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.

noduct standard DIN EN 61076-2-101 (M12) nstallation (Cobie 613 able Intradict 613 able Intradict 613 acket Color black opt of Corificate OURus mount stranding 1 tranding 3 wires twisted tranding 34/t 0/m aterial jacket PVC brown, black, blue able weight able weight 85 t 5 Shore A readom from ingredients (jacket) 85 t 5 Chroe A readom from ingredients (jacket) 4.6 mm oteration suic strandiction PVC mount wires 3 uter diameter (isolation PVC mount wires 3 uter diameter insulation 1.5 % hore hardness wire insulation 45 t 5 Shore D aterial growties wire insulation 45 4 c, cadmium-free, CFC-free, silicone-free mount strands (wire) 19 atarial growties wire insulation 45 4 c, cadmium-free, CFC-free, silicone-free mount strands (wire) 0.15 mm ondu	Conformity	
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tranding 3 wires twisted ire arrangement brown, black, blue able weigth 34,1 g/m taterial jacket PVC hore hardness jacket 85 ± 5 Shore A reedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, silicone-free uiter diameter (jacket) 4.6 mm olerance outer diameter (seath) ± 5 % laterial avire insulation PVC mount wires 3 uiter diameter tolerance core insulation ± 5 % hore hardness wire insulation 4.5 to P laterial properties wire insulation 4.5 to Shore D laterial properties wire insulation good machinability gredient freeness wire insulation 19 iameter of single wires 0,15 mm onductor rops exection (wire) 0.34 mm² onductor rope (wire) Strand dass 5 ominal voltage AC max. 300 V urrent load capacity min. wire 6 A laterial orige one ince constant wire 57 0/km @ 20 °C C withstand voltage (wire - wire) 2 kV @ 60 s owiret frequency withstand	Type of Certificate	cURus
ire arangementbrown, black, blueable weigh34,1 g/mlaterial jacketPVChore hardness jacket85.1 S Shore Areedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, silicone-freeutler-diameter (jacket)4,6 mmoblerance outer diameter (sheath)1.5 %laterial via insulationPVCmount wires3utuer diameter insulation1,25 mmuter diameter tolerance ocre insulation 1.5 S muter diameter insulation 5.5 Shore Dlaterial wire insulation 5.5 Shore Dlaterial wire insulation 5.5 Shore Dlaterial properties wire insulation 1.5 mmuter diameter tolerance ocre insulation 1.5 mmiareater of single wires 0.15 mmonductor torsessection (wire) 0.34 mm²laterial properties wire insulationlead-free, cadmium-free, CFC-free, silicone-freemount strads (wire)19iareater of single wires 0.15 mmonductor torsessection (wire) 0.34 mm²laterial conductor wireStranded copper wire, bareonductor type (wire)Stranded copper wire, bareominal voltage AC max. 300 Vurrent load capacity (standard)to DIN VDE 0298-4urrent load capacity (min. wire) 6 Aleetrical resistance line constant wire 57Ω km @ 20 °CC withstand voltage (wire - wire) $2 kV @ 60$ sower frequency withstand voltage (wire - wire) $2 kV @ 60$ score frequency withstand voltage (Amount stranding	1
able weight 34,1 g/m laterial jacket PVC hore hardness jacket 85 ± 5 Shore A reedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, silicone-free utter-diameter (jacket) 4.6 mm olerance outer diameter (sheath) ± 5 % taterial wire insulation PVC mount wires 3 uter diameter insulation 1.25 mm uter diameter tolerance core insulation ± 5 % hore hardness wire insulation 45 ± 5 Shore D laterial wree tolerance core insulation good machinability gredient freeness wire insulation good machinability gredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free mount strands (wire) 19 iameter of single wires 0,15 mm onductor crosssection (wire) 0.34 mm ² laterial conductor wire Stranded copper wire, bare onductor vire Strande copper wire, bare ominal voltage AC max. 300 V urrent load capacity (standard) to DIN VDE 0298-4 urrent load capacity (standard) to DIN VDE 0298-4 urrent load capacity (standard) to DIN VDE 0290 °C C withstand voltage (wire - wire) 2 kV @ 60 s ower frequency withstand voltage (wire -	Stranding	3 wires twisted
Iaterial jacket PVC hore hardness jacket 85 ± 5 Shore A reedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, silicone-free uiter-diameter (jacket) 4.6 mm olerance outer diameter (jacket) ± 5 % laterial wire insulation PVC mount wires 3 uiter diameter insulation 1.25 mm uiter diameter tolerance core insulation ± 5 % hore hardness wire insulation ± 5 % laterial properties wire insulation ± 5 % noter hardness wire insulation ± 5 % laterial properties wire insulation ± 5 % iareef or single wires 0,15 mm onductor crosssection (wire) 0.34 mm ² laterial conductor wire Strande copper wire, bare ordinal voltage AC max. 300 V urrent load capacity (standard) to DIN VDE 0298-4 urrent load capacity (standard) to DIN VDE 0298-4 urrent load capacity withstand voltage (wire - wire) 2 kV @ 60 s ower frequency withstand voltage (wire - wire) 2 kV @ 60 s ower frequency withstand voltage (wire - ketel	wire arrangement	brown, black, blue
hore hardness jacket85 ± 5 Shore Areedom from ingredients (jacket)lead-free, cadmium-free, CFC-free, silicone-freeutter-diameter (jacket)4,6 mmolerance outer diameter (sheath) \pm 5 %laterial wire insulationPVCmount wires3utter diameter insulation1,25 mmuter diameter core insulation \pm 5 %hore hardness wire insulation \pm 5 %hore hardness wire insulation \pm 5 %hore hardness wire insulation \pm 5 % Shore Dlaterial properties wire insulationgood machinabilitygredient freeness wire insulationlead-free, cadmium-free, CFC-free, silicone-freemount strands (wire)19iameter of single wires0,15 mmonductor wireStranded copper wire, bareonductor wireStranded copper wire, bareonductor wireStranded copper wire, bareonductor wire6 Aleatrial conductor wire6 Aleatrial resistance line constant wire57 Q/Km @ 20 °CC withstand voltage (wire -2 kV @ 60 sower frequency withstand voltage (wire -2 kV @ 60 slin. operating temperature (static)-30 °Clax. operating temperature (is(optime)5 °Cperating temperature min. (dynamic)6 °C	Cable weigth	34,1 g/m
reedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, silicone-free uter-diameter (jacket) 4,6 mm olerance outer diameter (sheath) ± 5 % laterial wire insulation PVC mount wires 3 uter diameter lolerance core insulation ± 5 % hore hardness wire insulation 4.5 5 hore D laterial properties wire insulation 45 ± 5 Shore D laterial properties wire insulation lead-free, cadmium-free, CFC-free, silicone-free mount wires 0 greedient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free mount strands (wire) 19 lameter of single wires 0.15 mm onductor crossection (wire) 0.34 mm² laterial conductor wire Strand class 5 onductor type (wire) Strand class 5 onductor ype (wire) to DIN VDE 0298-4 urrent load capacity (standard) to DIN VDE 0298-4 urrent load capacity (standard) to DIN VDE 0298-4 urrent load capacity withstand voltage (wire - cket) 2 kV @ 60 s owires (were-wire) 2 kV @ 60 s	Material jacket	PVC
uter-diameter (jacket)4.6 mmolerance outer diameter (sheath) \pm 5 %taterial wire insulationPVCmount wires3uter diameter insulation1.25 mmuter diameter tolerance core insulation \pm 5 %hore hardness wire insulation \pm 5 %hore hardness wire insulationgood machinabilitygredient freeness wire insulationgood machinabilitygredient freeness wire insulationlead-free, cadmium-free, CFC-free, silicone-freemount strands (wire)19laterial orductor wire0.15 mmonductor crosssection (wire)0.34 mm²atterial voltage AC max.300 Vurrent load capacity (standard)to DIN VDE 0298-4urrent load capacity (standard)to DIN VDE 0298-4urrent load capacity within wire6 Aleatcrial eristand voltage (wire - wire)2 kV @ 60 scwer frequency withstand voltage (wire - wire)2 kV @ 60 scwer frequency withstand voltage (wire)2 kV @ 60 saw. operating temperature (fixed)80 °Cperating temperature (min. (dynamic))55 °Cperating temperature min. (dynamic)55 °Cperating temperature min. (dynamic)80 °C	Shore hardness jacket	85 ± 5 Shore A
olerance outer diameter (sheath) \pm 5 %laterial wire insulationPVCmount wires3uter diameter insulation1,25 mmuter diameter colerance core insulation \pm 5 %hore hardness wire insulation $45 \pm$ 5 Shore Dlaterial properties wire insulationgood machinabilitygredient freeness wire insulationlead-free, cadmium-free, CFC-free, silicone-freemount strands (wire)19iameter of single wires0,15 mmonductor crosssection (wire)0.34 mm²laterial conductor wireStranded copper wire, bareonductor type (wire)Strand class 5ominal voltage AC max.300 Vurrent load capacity (standard)to DIN VDE 0298-4urrent load capacity wins. wire57 Ω/km @ 20 °CC withstand voltage (wire - wire)2 kV @ 60 sower frequency withstand voltage (wire)30 °Cin operating temperature (static)-30 °Caka. operating temperature (static)50 °Cperating temperature (min. (dynamic)-5 °Cperating temperature min. (dynamic)50 °C	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, silicone-free
Interval wire insulation PVC mount wires 3 uter diameter insulation 1,25 mm uter diameter tolerance core insulation ± 5 % hore hardness wire insulation 45 ± 5 Shore D laterial properties wire insulation good machinability gredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free mount strands (wire) 19 iameter of single wires 0,15 mm onductor crosssection (wire) 0,34 mm² laterial conductor wire Stranded copper wire, bare onductor type (wire) Strand class 5 ominal voltage AC max. 300 V urrent load capacity (standard) to DIN VDE 0298-4 urrent load capacity min. wire 6 A electrical resistance line constant wire 57 Ω/km @ 20 °C C withstand voltage (wire - wire) 2 kV @ 60 s ower frequency withstand voltage (wire - class) 2 kV @ 60 s ower frequency withstand voltage (wire) -30 °C aka. operating temperature (static) -30 °C aka. operating temperature (static) -30 °C aka. operatin	Outer-diameter (jacket)	4,6 mm
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uter diameter insulation 1.25 mm uter diameter tolerance core insulation ± 5 % hore hardness wire insulation 45 ± 5 Shore D laterial properties wire insulation good machinability ggredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free mount strands (wire) 19 iameter of single wires 0,15 mm onductor crosssection (wire) 0,34 mm² laterial conductor wire Stranded copper wire, bare onductor type (wire) Strand class 5 ominal voltage AC max. 300 V urrent load capacity (standard) to DIN VDE 0298-4 urrent load capacity win. wire 6 A lectrical resistance line constant wire 57 Ω/km @ 20 °C C withstand voltage (wire - wire) 2 kV @ 60 s ower frequency withstand voltage (wire - cket) 30 °C law, operating temperature (fixed) 80 °C perating temperature mix. (dynamic) 55 °C perating temperature max. (dynamic) 80 °C	Material wire insulation	PVC
uter diameter tolerance core insulation $\pm 5 \%$ hore hardness wire insulation 45 ± 5 Shore Dlaterial properties wire insulationgood machinabilitygredient freeness wire insulationlead-free, cadmium-free, CFC-free, silicone-freemount strands (wire)19iameter of single wires0,15 mmonductor crosssection (wire)0,34 mm²laterial conductor wireStranded copper wire, bareonductor type (wire)Stranded copper wire, bareonductor type (wire)Strand class 5ominal voltage AC max.300 Vurrent load capacity (standard)to DIN VDE 0298-4urrent load capacity (standard)57 $\Omega/km @ 20 \ C$ C withstand voltage (wire - wire)2 kV @ 60 sower frequency withstand voltage (wire - diagonal)-30 \ Clin. operating temperature (static)-30 \ Cperating temperature (fixed)80 \ Cperating temperature min. (dynamic)-5 \ Cperating temperature max. (dynamic)80 \ C	Amount wires	3
hore hardness wire insulation45 ± 5 Shore Dlaterial properties wire insulationgood machinabilitygredient freeness wire insulationlead-free, cadmium-free, CFC-free, silicone-freemount strands (wire)19iameter of single wires0,15 mmonductor crosssection (wire)0,34 mm²laterial conductor wireStranded copper wire, bareonductor type (wire)Strand class 5ominal voltage AC max.300 Vurrent load capacity (standard)to DIN VDE 0298-4urrent load capacity (standard)to ZNM @ 20 °CC withstand voltage (wire - wire)2 kV @ 60 sower frequency withstand voltage (wire - de scalar)-30 °Clat. operating temperature (static)-30 °Clat. operating temperature (mixed)80 °Cperating temperature max. (dynamic)-5 °Cperating temperature max. (dynamic)80 °C	Outer diameter insulation	1,25 mm
laterial properties wire insulationgood machinabilitygredient freeness wire insulationlead-free, cadmium-free, CFC-free, silicone-freemount strands (wire)19iameter of single wires0,15 mmonductor crosssection (wire)0,34 mm²laterial conductor wireStranded copper wire, bareonductor type (wire)Strand class 5ominal voltage AC max.300 Vurrent load capacity (standard)to DIN VDE 0298-4urrent load capacity min. wire6 Alectrical resistance line constant wire57 Ω/km @ 20 °CC withstand voltage (wire - wire)2 kV @ 60 sower frequency withstand voltage (wire - cket)-30 °Claw. operating temperature (static)-30 °Claw. operating temperature min. (dynamic)-5 °Cperating temperature max. (dynamic)80 °C	Outer diameter tolerance core insulation	±5%
gredient freeness wire insulation lead-free, cadmium-free, CFC-free, silicone-free mount strands (wire) 19 iameter of single wires 0,15 mm onductor crosssection (wire) 0,34 mm² laterial conductor wire Stranded copper wire, bare onductor type (wire) Strand class 5 ominal voltage AC max. 300 V urrent load capacity (standard) to DIN VDE 0298-4 lectrical resistance line constant wire 6 A lectrical resistance line constant wire 57 Ω/km @ 20 °C C withstand voltage (wire - wire) 2 kV @ 60 s ower frequency withstand voltage (wire - cket) -30 °C lin. operating temperature (static) -30 °C lax. operating temperature (fixed) 80 °C perating temperature min. (dynamic) -5 °C perating temperature max. (dynamic) 80 °C	Shore hardness wire insulation	45 ± 5 Shore D
mount strands (wire)19iameter of single wires0,15 mmonductor crosssection (wire)0,34 mm²laterial conductor wireStranded copper wire, bareonductor type (wire)Strand class 5ominal voltage AC max.300 Vurrent load capacity (standard)to DIN VDE 0298-4urrent load capacity (standard)6 Alectrical resistance line constant wire57 Ω/km @ 20 °CC withstand voltage (wire - cket)2 kV @ 60 sower frequency withstand voltage (wire - cket)-30 °Clax. operating temperature (static)-30 °Clax. operating temperature (fixed)80 °Cperating temperature min. (dynamic)-5 °Cperating temperature max. (dynamic)80 °C	Material properties wire insulation	good machinability
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onductor type (wire)Strand class 5ominal voltage AC max.300 Vurrent load capacity (standard)to DIN VDE 0298-4urrent load capacity min. wire6 Alectrical resistance line constant wire57 Ω/km @ 20 °CC withstand voltage (wire - wire)2 kV @ 60 sower frequency withstand voltage (wire - cket)2 kV @ 60 sin. operating temperature (static)-30 °Clax. operating temperature (fixed)80 °Cperating temperature min. (dynamic)-5 °Cperating temperature max. (dynamic)80 °C	Conductor crosssection (wire)	0,34 mm ²
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lectrical resistance line constant wire 57 Ω/km @ 20 °C C withstand voltage (wire - wire) 2 kV @ 60 s ower frequency withstand voltage (wire - cket) 2 kV @ 60 s lin. operating temperature (static) -30 °C lax. operating temperature (fixed) 80 °C perating temperature min. (dynamic) -5 °C perating temperature max. (dynamic) 80 °C	Current load capacity (standard)	to DIN VDE 0298-4
C withstand voltage (wire - wire) 2 kV @ 60 s ower frequency withstand voltage (wire - icket) 2 kV @ 60 s lin. operating temperature (static) -30 °C lax. operating temperature (fixed) 80 °C perating temperature min. (dynamic) -5 °C perating temperature max. (dynamic) 80 °C	Current load capacity min. wire	6 A
ower frequency withstand voltage (wire - cket) 2 kV @ 60 s lin. operating temperature (static) -30 °C lax. operating temperature (fixed) 80 °C operating temperature min. (dynamic) -5 °C operating temperature max. (dynamic) 80 °C	Electrical resistance line constant wire	57 Ω/km @ 20 °C
in. operating temperature (static) -30 °C lax. operating temperature (fixed) 80 °C operating temperature min. (dynamic) -5 °C operating temperature max. (dynamic) 80 °C	AC withstand voltage (wire - wire)	2 kV @ 60 s
lin. operating temperature (static)-30 °Clax. operating temperature (fixed)80 °Cuperating temperature min. (dynamic)-5 °Cuperating temperature max. (dynamic)80 °C	Power frequency withstand voltage (wire - jacket)	2 kV @ 60 s
lax. operating temperature (fixed)80 °Cperating temperature min. (dynamic)-5 °Cperating temperature max. (dynamic)80 °C	Min. operating temperature (static)	-30 °C
perating temperature min. (dynamic)-5 °Cuperating temperature max. (dynamic)80 °C	Max. operating temperature (fixed)	80 °C
perating temperature max. (dynamic) 80 °C	Operating temperature min. (dynamic)	-5 °C
	Operating temperature max. (dynamic)	80 °C
V resistance DIN EN ISO 4892-2 A	UV resistance	DIN EN ISO 4892-2 A
lame resistance IEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090	Flame resistance	IEC 60332-2-2 UL 1581 § 1100 FT2 UL 1581 § 1090
	chemical resistance	
	Gasoline resistance	
il resistance Good, application-related testing DIN EN 60811-404	Oil resistance	Good, application-related testing DIN EN 60811-404
	Bending radius (fixed)	
	Bending radius (dynamic)	10 x Outer diameter

The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-05-19

Murrelektronik Ltd. | 5 Albion Street, Pendlebury Industrial Estate, Swinton | Manchester M27 4FG | Fon +44 161 728 3133 | Fax +44 161 728 3130 | shop@murrelektronik.co.uk | shop.murrelektronik.co.uk