

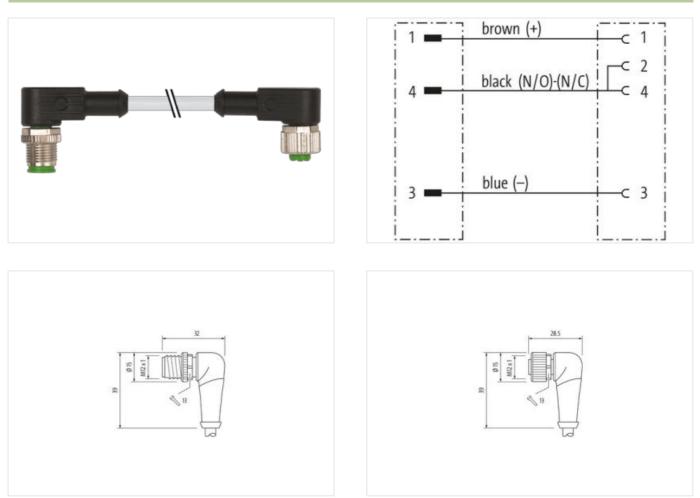
## M12 male 90° / M12 female 90° A-cod.

PVC 3x0.34 gy UL/CSA 1.5m

Male 90° – female 90° M12 – M12, 3-pole bridged Art-No. 7005 - M12 Lite - (plastic hexagonal screw) on request 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.

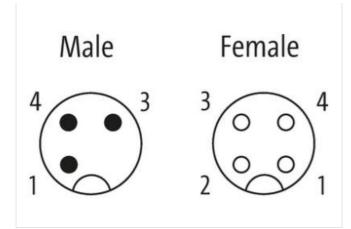
## Link to Product





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: 2024-05-14





Product may differ from Image



Side 1           ghtering torque         0.6 Nm           ounting method         inserted, screwed           amily construction form         M12           mead         M12 x 1           aitable for corrugated tube (internal Ø)         10 mm           oding         A           aterial         PUR           (fidh across flats         SW13           segre of protection (EN IEC 60529)         IP66K, IP67           Side 2         U           ghtening torque         0.6 Nm           ounting method         inserted, screwed           anily construction form         M12           read         M12 x 1           itable for corrugated tube (internal Ø)         10 mm           outing method         inserted, screwed           anily construction form         M12 x 1           read         M12 x 1           itable for corrugated tube (internal Ø)         10 mm           oding         A           aterial         PUR           fidth across flats         SW13           egree of protection (EN IEC 60529)         IP66K, IP67           commercial data         Eucropanting A           caterial         SW13           caterial		
ghtening torque         0,6 Nm           ounling method         inserted, screwed           amily construction form         M12           nread         M12 x 1           itable for corrugated tube (internal Ø)         10 mm           oding         A           aterial         PUR           itable for corrugated tube (internal Ø)         IP6K, IP67           site across flats         SW13           segree of protection (EN IEC 60529)         IP6K, IP67           site across flats         Site across flats           ounting method         inserted, screwed           amily construction form         M12           viead         M12 x 1           itable for corrugated tube (internal Ø)         10 mm           coding         A           aterial         M12 x 1           itable for corrugated tube (internal Ø)         10 mm           coding         A           aterial         PUR           itable for corrugated tube (internal Ø)         10 mm           coding         A           starda corss flats         SW13           segree of protection (EN IEC 60529)         IP66K, IP67           commercial data         PUR           toth acrugate <td>Cable length</td> <td>1,5 m</td>	Cable length	1,5 m
outing method         inserted, screwed           amily construction form         M12           mead         M12 x 1           itable for corrugated tube (internal Ø)         10 mm           oding         A           aterial         PUR           fifth across flats         SW13           egree of protection (EN IEC 60529)         IP66K, IP67           side 2	Side 1	
amily construction form         M12           nread         M12 x 1           aitable for corrugated tube (internal Ø)         10 mm           oding         A           aterial         PUR           lidth across flats         SW13           segree of protection (EN IEC 60529)         IP66K, IP67           Side 2            ghtening torque         0,6 Nm           ounting method         inserted, screwed           amily construction form         M12           nread         M12 x 1           aitable for corrugated tube (internal Ø)         10 mm           oding         A           aterial         PUR           ridate ross flats         SW13           oging         A           aterial         PUR           fidth across flats         SW13           segree of protection (EN IEC 60529)         IP66K, IP67           Commercial data         CLASS-6.0         27061801           Stoms flatf number         85444290           ackaging unit         1           Electrical data   Supply            parating voltage AC (UL-listed)         30 V           parating voltage AC (UL-listed)         30 V	Tightening torque	0,6 Nm
hread         M12 x 1           uitable for corrugated tube (internal Ø)         10 mm           oding         A           aterial         PUR           fidth across flats         SW13           egree of protection (EN IEC 60529)         IP66K, IP67           side 2	Mounting method	inserted, screwed
Instruction         10 mm           oding         A           aterial         PUR           fidth across filats         SW13           egree of protection (EN IEC 60529)         IP66K, IP67           side 2	Family construction form	M12
AaterialPURfidth across flatsSW13egree of protection (EN IEC 60529)IP66K, IP67side 2	Thread	M12 x 1
aterial         PUR           fidth across flats         SW13           egree of protection (EN IEC 60529)         IP66K, IP67           Side 2         IP66K, IP67           ghtening torque         0,6 Nm           ounting method         inserted, screwed           amily construction form         M12           nread         M12 x 1           tibble for corrugated tube (internal Ø)         10 mm           oding         A           aterial         PUR           fidth across flats         SW13           egree of protection (EN IEC 60529)         IP66K, IP67           Commercial data         SW13           construction (EN IEC 60529)         IP66K, IP67           Commercial data         SW43           cotage of protection (EN IEC 60529)         IP66K, IP67           Commercial data         SW4290           cackaging unit         1           cletcrical data   Supply         Image: Supply = S	suitable for corrugated tube (internal Ø)	10 mm
Tidth across flats         SW13           egree of protection (EN IEC 60529)         IP66K, IP67           side 2	Coding	A
Begree of protection (EN IEC 60529)         IP66K, IP67           Side 2         Presed           ghtening torque         0,6 Nm           ounting method         inserted, screwed           amily construction form         M12           nread         M12 x 1           uitable for corrugated tube (internal Ø)         10 mm           odding         A           aterial         PUR           geree of protection (EN IEC 60529)         IP66K, IP67           Commercial data         CLASS-6.0         27061801           sistom striff number         85444290           ackaging unit         1           Electrical data [Supply         Perating voltage AC max.         250 V           perating voltage AC (UL-listed)         30 V         Perating voltage AC (UL-listed)           urrent operating per contact max.         4 A	Material	PUR
Side 2       0,6 Nm         ounting method       inserted, screwed         amily construction form       M12         pread       M12 x 1         aitable for corrugated tube (internal Ø)       10 mm         oding       A         aterial       PUR         fidth across flats       SW13         egree of protection (EN IEC 60529)       IP66K, IP67         Commercial data       27061801         ustoms tariff number       85444290         ackaging unit       1         Electrical data   Supply       1         perating voltage AC max.       250 V         perating voltage AC (UL-listed)       30 V         perating voltage DC (UL-listed)       30 V         urrent operating per contact max.       4 A	Width across flats	SW13
ghtening torque         0,6 Nm           ounting method         inserted, screwed           amily construction form         M12           nread         M12 x 1           aitable for corrugated tube (internal Ø)         10 mm           oding         A           aterial         PUR           fidth across flats         SW13           egree of protection (EN IEC 60529)         IP66K, IP67           Commercial data         27061801           ustoms tariff number         85444290           ackaging unit         1           Electrical data   Supply         1           perating voltage AC max.         250 V           perating voltage AC (UL-listed)         30 V           perating voltage DC (UL-listed)         30 V           perating voltage DC (UL-listed)         30 V           perating voltage DC (UL-listed)         30 V	Degree of protection (EN IEC 60529)	IP66K, IP67
outining methodinserted, screwedamily construction formM12hreadM12 x 1aitable for corrugated tube (internal Ø)10 mmodingAaterialPURfidth across flatsSW13egree of protection (EN IEC 60529)IP66K, IP67Commercial data27061801LSASS-6.027061801ustoms tariff number85444290ackaging unit1Electrical data   Supplyperating voltage AC max.250 Vperating voltage DC max.250 Vperating voltage AC (UL-listed)30 Vurrent operating per contact max.4 A	Side 2	
amily construction formM12hreadM12 x 1itable for corrugated tube (internal Ø)10 mmodingAaterialPURfidth across flatsSW13egree of protection (EN IEC 60529)IP66K, IP67Commercial dataCLASS-6.027061801istoms tariff number85444290ackaging unit1Electrical data   Supplyperating voltage AC max.250 Vperating voltage AC (UL-listed)30 Vperating voltage DC max.250 Vperating voltage DC max.250 Vperating voltage DC (UL-listed)30 V	Tightening torque	0,6 Nm
hreadM12 x 1uitable for corrugated tube (internal Ø)10 mmodingAaterialPURfidth across flatsSW13egree of protection (EN IEC 60529)IP66K, IP67Commercial dataZ7061801CLASS-6.027061801ustoms tariff number85444290ackaging unit1Electrical data   Supplyperating voltage AC max.250 Vperating voltage AC (UL-listed)30 Vperating voltage DC (UL-listed)30 Vurrent operating per contact max.4 A	Mounting method	inserted, screwed
uitable for corrugated tube (internal Ø)10 mmodingAaterialPURfidth across flatsSW13egree of protection (EN IEC 60529)IP66K, IP67Commercial dataCLASS-6.027061801ackaging unit1Electrical data   Supplyperating voltage AC max.250 Vperating voltage AC (UL-listed)30 Vperating voltage AC (UL-listed)30 Vurrent operating per contact max.4 A	Family construction form	M12
AaterialPURfidth across flatsSW13egree of protection (EN IEC 60529)IP66K, IP67Commercial dataZ7061801CLASS-6.027061801ustoms tariff number85444290ackaging unit1Electrical data   Supplyperating voltage AC max.250 Vperating voltage AC (UL-listed)30 Vperating voltage DC (UL-listed)30 Vurrent operating per contact max.4 A	Thread	M12 x 1
aterialPURidith across flatsSW13egree of protection (EN IEC 60529)IP66K, IP67Commercial data27061801CLASS-6.027061801ustoms tariff number85444290ackaging unit1Electrical data   Supplyperating voltage AC max.250 Vperating voltage AC max.250 Vperating voltage AC (UL-listed)30 Vurrent operating per contact max.4 A	suitable for corrugated tube (internal Ø)	10 mm
Kind across flats     SW13       egree of protection (EN IEC 60529)     IP66K, IP67       Commercial data     CLASS-6.0     27061801       Lass 6.0     27061801       ustoms tariff number     85444290       ackaging unit     1       Electrical data   Supply       perating voltage AC max.     250 V       perating voltage DC max.     250 V       perating voltage AC (UL-listed)     30 V       urrent operating per contact max.     4 A	Coding	A
egree of protection (EN IEC 60529)       IP66K, IP67         Commercial data       27061801         CLASS-6.0       27061801         istoms tariff number       85444290         ackaging unit       1         Electrical data   Supply       250 V         perating voltage AC max.       250 V         perating voltage AC (UL-listed)       30 V         perating voltage DC (UL-listed)       30 V         uurrent operating per contact max.       4 A	Material	PUR
Commercial dataCLASS-6.027061801Jstoms tariff number85444290ackaging unit1Electrical data   Supplyperating voltage AC max.250 Vperating voltage DC max.250 Vperating voltage AC (UL-listed)30 Vperating voltage DC (UL-listed)30 Vuurrent operating per contact max.4 A	Width across flats	SW13
CLASS-6.027061801ustoms tariff number85444290ackaging unit1Electrical data   Supplyperating voltage AC max.250 Vperating voltage DC max.250 Vperating voltage AC (UL-listed)30 Vperating voltage DC (UL-listed)30 Vuurent operating per contact max.4 A	Degree of protection (EN IEC 60529)	IP66K, IP67
ustoms tariff number       85444290         ackaging unit       1         Electrical data   Supply       250 V         perating voltage AC max.       250 V         perating voltage AC (UL-listed)       30 V         perating voltage DC (UL-listed)       30 V         uurrent operating per contact max.       4 A	Commercial data	
ackaging unit     1       Electrical data   Supply       perating voltage AC max.     250 V       perating voltage DC max.     250 V       perating voltage AC (UL-listed)     30 V       perating voltage DC (UL-listed)     30 V       urrent operating per contact max.     4 A	ECLASS-6.0	27061801
Electrical data   Supply         perating voltage AC max.       250 V         perating voltage DC max.       250 V         perating voltage AC (UL-listed)       30 V         perating voltage DC (UL-listed)       30 V         uurrent operating per contact max.       4 A	customs tariff number	85444290
perating voltage AC max.250 Vperating voltage DC max.250 Vperating voltage AC (UL-listed)30 Vperating voltage DC (UL-listed)30 Vuurrent operating per contact max.4 A	Packaging unit	1
perating voltage DC max.250 Vperating voltage AC (UL-listed)30 Vperating voltage DC (UL-listed)30 Vurrent operating per contact max.4 A	Electrical data   Supply	
perating voltage AC (UL-listed)     30 V       perating voltage DC (UL-listed)     30 V       urrent operating per contact max.     4 A	Operating voltage AC max.	250 V
perating voltage DC (UL-listed)     30 V       urrent operating per contact max.     4 A	Operating voltage DC max.	250 V
urrent operating per contact max. 4 A	Operating voltage AC (UL-listed)	30 V
	Operating voltage DC (UL-listed)	30 V
nstallation   Connection	Current operating per contact max.	4 A
	Installation   Connection	

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: 2024-05-14



Mounting set	M12 x 1
Device protection   Electrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Material group (IEC 60664-1)	
Mechanical data   Material data	
•	Nickeled
Coating locking	
Coating of fitting	nickel plated
Locking material Material screw connection	Zinc die-casting Zinc die-casting
	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.
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.
Conformity	
Product standard	DIN EN 61076-2-101 (M12)
Installation   Cable	
Cable identification	213
Cable Type	1
Jacket Color	gray
Type of Certificate	cURus
Amount stranding	1
Stranding	3 wires twisted
wire arrangement	brown, black, blue
Cable weigth	34,1 g/m
Material jacket	PVC
Shore hardness jacket	85 ± 5 Shore A
Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, silicone-free
Outer-diameter (jacket)	4,6 mm
Tolerance outer diameter (sheath)	±5%
Material wire insulation	PVC
Amount wires	3
Outer diameter insulation	1,25 mm
Outer diameter tolerance core insulation	±5%
Shore hardness wire insulation	45 ± 5 Shore D
Material properties wire insulation	good machinability
Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, silicone-free
Amount strands (wire)	19
Amount strands (wire)	19
Amount strands (wire) Diameter of single wires	19 0,15 mm
Amount strands (wire) Diameter of single wires Conductor crosssection (wire)	19 0,15 mm 0,34 mm <sup>2</sup>
Amount strands (wire) Diameter of single wires Conductor crosssection (wire) Material conductor wire	19         0,15 mm         0,34 mm²         Stranded copper wire, bare
Amount strands (wire) Diameter of single wires Conductor crosssection (wire) Material conductor wire Conductor type (wire)	19         0,15 mm         0,34 mm²         Stranded copper wire, bare         Strand class 5

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: 2024-05-14



Electrical resistance line constant wire	57 Ω/km @ 20 °C
AC withstand voltage (wire - wire)	2 kV @ 60 s
Power frequency withstand voltage (wire - jacket)	2 kV @ 60 s
Min. operating temperature (static)	-30 °C
Max. operating temperature (fixed)	80 °C
Operating temperature min. (dynamic)	-5 °C
Operating temperature max. (dynamic)	80 °C
Flame resistance	IEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090
chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing
Oil resistance	Good, application-related testing   DIN EN 60811-404
Bending radius (fixed)	5 x Outer diameter
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: 2024-05-14