

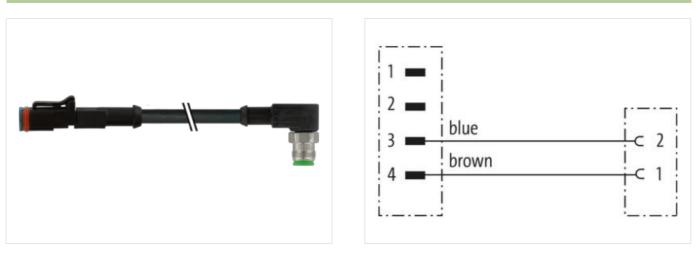
## M12 Xtreme male 90° A-cod. / valve plug MDC06-2s

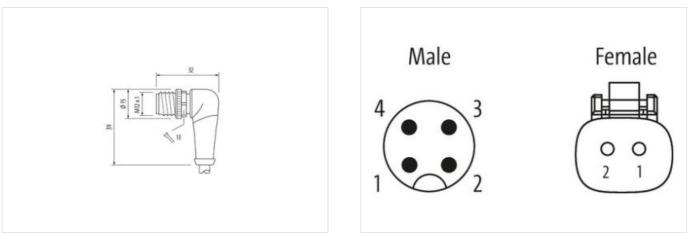
PUR 2x0.75 bk UL/CSA+drag ch. 3m

Xtreme - Outdoor
Further cable lengths on request.
Male 90° - male straight
M12
4-pole
Deutsch MDC06-2S
2-pole
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.

## Link to Product

Illustration





Product may differ from Image

| Cable length                              | 3 m   |
|---|-------|
| Side 1                                    |       |
| Family construction form                  | M12   |
| suitable for corrugated tube (internal Ø) | 10 mm |

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| Coding  | A   |
|---|---|
| Material  | PUR   |
| Width across flats  | SW14  |
| Side 2  |   |
| Tightening torque   | 0,6 Nm  |
| Family construction form  | Amphenol AT06-2S  |
| Thread  | M12 x 1   |
| suitable for corrugated tube (internal $\emptyset$ )            | 11 mm   |
| Material  | PA  |
| Commercial data   |   |
| ECLASS-6.0  | 27279218  |
| ECLASS-7.0  | 27279218  |
| ECLASS-8.0  | 27279218  |
| ECLASS-9.0  | 27060311  |
| ECLASS-10.1   | 27060312  |
| ECLASS-11.1   | 27060312  |
| ECLASS-12.0   | 27060312  |
| ETIM-5.0  | EC001855  |
| customs tariff number   | 85444290  |
| GTIN  | 4048879657754   |
| Packaging unit  | 1   |
| Electrical data   Supply  |   |
|   |   |
| Operating voltage AC min.                                       | 12 V  |
| Operating voltage AC max.                                       | 230 V   |
| Operating voltage DC min.                                       | 12 V  |
| Operating voltage DC max.<br>Current operating per contact max. | 230 V<br>4 A  |
|   | 4 A   |
| Device protection   Electrical                                  |   |
| Degree of protection (EN IEC 60529)                             | IP65, IP67, IP68, IP66K   |
| Additional condition protection degree                          | inserted, screwed   |
| Pollution Degree  | 3   |
| Rated surge voltage   | 2,5 kV  |
| Material group (IEC 60664-1)                                    |   |
| Additional suppressor   | without components  |
| Mechanical data   Material data                                 |   |
| Material gasket   | Silicon   |
| Locking material  | Stainless steel 1.4305 (V2A)  |
| Mechanical data   Mounting data                                 |   |
| Mounting method   | inserted, screwed, Shaking protection   |
| Looking techniques  | Snap-in connector   |
| Environmental characteristics   Climatic                        |   |
| · · ·   |   |
| Operating temperature min.<br>Operating temperature max.        | -25 °C<br>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<br>endangered by excessive bending forces. |
| Installation   Cable  |   |
| Cable identification  | 754   |
| Cable Type  | 3   |
| mation in this Product-PDF has been compiled with the           |   |

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| Type of Certificate         cURus           Amount stranding         1           Stranding         2 wires twisted           wire arrangement         brown, blue           Cable weigth         40,7 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer diameter (jacket)         5 mm           Tolerance outer diameter (shealth)         ± 5 %           Material wire insulation         PP           Amount wires         2           Outer diameter insulation         1,7 mm           Outer diameter insulation         10 ± 5 Shore D           Ingredient freeness wire insulation         70 ± 5 Shore D           Ingredient freeness wire insulation         1,7 mm           Outer diameter insulation         10 ± 5 Shore D           Ingredient freeness wire insulation         10 ± 5 Shore D           Ingredient freeness wire insulation         10 ± 5 Shore D           Conductor crosssection (wire)         0,75 mm <sup>2</sup> Conductor wire         Stranded copper wire, bare           Conductor wire         Stranded copper wire, bare           Conductor wire <td< th=""></td<>                      |
|--|
| Stranding       2 wires twisted         wire arrangement       brown, blue         Cable weigth       40.7 g/m         Material Jacket       PUR         Shore hardness jacket       90 ± 5 Shore A         Freedom from ingredients (jacket)       lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         Outer-diameter (jacket)       5 mm         Tolerance outer diameter (sheath)       ± 5 %         Material wire insulation       PP         Amount wires       2         Outer diameter tolerance core insulation       1.7 mm         Outer diameter tolerance core insulation       ± 5 %         Shore hardness wire insulation       70 ± 5 Shore D         Ingredient freeness wire insulation       1.7 mm         Outer diameter of single wires       0.15 mm         Conductor crossection (wire)       0.75 mm <sup>2</sup> Diameter of single wires       0.15 mm         Conductor wire       Stranded copper wire, bare   |
| wire arrangement         brown, blue           Cable weigth         40,7 g/m           Material jacket         PUR           Shore hardness jacket         90 ± 5 Shore A           Freedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Outer-diameter (jacket)         5 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         PP           Amount wires         2           Outer diameter insulation         1.7 mm           Outer diameter insulation         7.0 ± 5 Shore D           Ingredient freeness wire insulation         7.0 ± 5 Shore D           Ingredient freeness wire insulation         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           Amount strands (wire)         42           Diameter of single wires         0,15 mm           Conductor crosssection (wire)         0,75 mm²           Material conductor wire         Stranded copper wire, bare           Conductor type (wire)         strand class 6           Traversing distance (C-track)         10 m @ 25 °C   horizontal           Nominal voltage AC max.         300 V           Current load capacity (standard)         to DIN VDE 0298-4           Current load capacity min. wire |
| Cable weigth       40,7 g/m         Material jacket       PUR         Shore hardness jacket       90 ± 5 Shore A         Freedom from ingredients (jacket)       lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         Outer-diameter (jacket)       5 mm         Tolerance outer diameter (sheath)       ± 5 %         Material wire insulation       PP         Amount wires       2         Outer diameter tolerance core insulation       1,7 mm         Outer diameter tolerance core insulation       ± 5 %         Shore hardness wire insulation       70 ± 5 Shore D         Ingredient freeness wire insulation       lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         Amount strands (wire)       42         Diameter of single wires       0,15 mm         Conductor wire       Stranded copper wire, bare         Current load c                               |
| Material jacket       PUR         Shore hardness jacket       90 ± 5 Shore A         Freedom from ingredients (jacket)       lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         Outer-diameter (jacket)       5 mm         Tolerance outer diameter (sheath)       ± 5 %         Material wire insulation       PP         Amount wires       2         Outer diameter tolerance core insulation       1,7 mm         Outer diameter tolerance core insulation       ± 5 %         Shore hardness wire insulation       70 ± 5 Shore D         Ingredient freeness wire insulation       lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         Amount strands (wire)       42         Diameter of single wires       0,15 mm         Conductor rosssection (wire)       0,75 mm²         Material conductor wire       Stranded copper wire, bare         Conductor type (wire)       strand class 6         Traversing distance (C-track)       10 m @ 25 °C   horizontal         Nominal voltage AC max.       300 V         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity (standard)       to DIN VD    |
| Shore hardness jacket       90 ± 5 Shore A         Freedom from ingredients (jacket)       lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         Outer-diameter (jacket)       5 mm         Tolerance outer diameter (sheath)       ± 5 %         Material wire insulation       PP         Amount wires       2         Outer diameter insulation       1,7 mm         Outer diameter tolerance core insulation       ± 5 %         Shore hardness wire insulation       1,7 mm         Outer diameter tolerance core insulation       ± 5 %         Shore hardness wire insulation       10 ± 5 Shore D         Ingredient freeness wire insulation       lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         Amount strands (wire)       42         Diameter of single wires       0,15 mm         Conductor crosssection (wire)       0,75 mm²         Material conductor wire       Stranded copper wire, bare         Conductor type (wire)       strand class 6         Traversing distance (C-track)       10 m @ 25 °C   horizontal         Nominal voltage AC max.       300 V         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity mi. wire       12 A           |
| Freedom from ingredients (jacket)       lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         Outer-diameter (jacket)       5 mm         Tolerance outer diameter (sheath)       ± 5 %         Material wire insulation       PP         Amount wires       2         Outer diameter insulation       1.7 mm         Outer diameter insulation       70 ± 5 Shore D         Ingredient freeness wire insulation       70 ± 5 Shore D         Ingredient freeness wire insulation       10 ± 5 Shore D         Ingredient freeness wire insulation       16 ± 7 Kee, cadmium-free, CFC-free, halogen-free, silicone-free         Amount strands (wire)       42         Diameter of single wires       0,15 mm         Conductor crosssection (wire)       0,75 mm²         Material conductor wire       Stranded copper wire, bare         Conductor type (wire)       strand class 6         Traversing distance (C-track)       10 m @ 25 °C   horizontal         Nominal voltage AC max.       300 V         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity (win. wire)       2,5 kV @ 60 s         Puwer frequenceurs withstand woltage (wire - wire)       2,5 kV @ 60 s                   |
| Outer-diameter (jacket)       5 mm         Tolerance outer diameter (sheath)       ± 5 %         Material wire insulation       PP         Amount wires       2         Outer diameter insulation       1,7 mm         Outer diameter insulation       ± 5 %         Shore hardness wire insulation       ± 5 %         Shore hardness wire insulation       ± 5 %         Shore hardness wire insulation       0 ± 5 Shore D         Ingredient freeness wire insulation       lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         Amount strands (wire)       42         Diameter of single wires       0,15 mm         Conductor rossection (wire)       0,75 mm²         Material conductor wire       Stranded copper wire, bare         Conductor type (wire)       strand class 6         Traversing distance (C-track)       10 m @ 25 °C   horizontal         Nominal voltage AC max.       300 V         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity (standard)       to DIN VDE 0298-4         Electrical resistance line constant wire       26 Ω/km @ 20 °C         AC withstand voltage (wire - wire)       2,5 kV @ 60 s         Denver forcureaction wine       2,5 kV @ 60 s  |
| Tolerance outer diameter (sheath)± 5 %Material wire insulationPPAmount wires2Outer diameter insulation1,7 mmOuter diameter tolerance core insulation± 5 %Shore hardness wire insulation70 ± 5 Shore DIngredient freeness wire insulationlead-free, cadmium-free, CFC-free, halogen-free, silicone-freeAmount strands (wire)42Diameter of single wires0,15 mmConductor crosssection (wire)0,75 mm²Material conductor wireStranded copper wire, bareConductor type (wire)strand class 6Traversing distance (C-track)10 m @ 25 °C   horizontalNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity (standard)to DIN VDE 0298-4Electrical resistance line constant wire26 Ω/km @ 20 °CAC withstand voltage (wire - wire)2,5 kV @ 60 sDuarter four one wire2,5 kV @ 60 s  |
| Material wire insulation       PP         Amount wires       2         Outer diameter insulation       1,7 mm         Outer diameter tolerance core insulation       ± 5 %         Shore hardness wire insulation       70 ± 5 Shore D         Ingredient freeness wire insulation       lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         Amount strands (wire)       42         Diameter of single wires       0,15 mm         Conductor crosssection (wire)       0,75 mm²         Material conductor wire       Stranded copper wire, bare         Conductor type (wire)       strand class 6         Traversing distance (C-track)       10 m @ 25 °C   horizontal         Nominal voltage AC max.       300 V         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity win. wire       12 A         Electrical resistance line constant wire       26 Ω/km @ 20 °C         AC withstand voltage (wire - wire)       2,5 kV @ 60 s         Puwer frequences withstand woltage (wire)       5,5 kV @ 60 s   |
| Amount wires       2         Outer diameter insulation       1,7 mm         Outer diameter tolerance core insulation       ± 5 %         Shore hardness wire insulation       70 ± 5 Shore D         Ingredient freeness wire insulation       lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         Amount strands (wire)       42         Diameter of single wires       0,15 mm         Conductor crosssection (wire)       0,75 mm²         Material conductor wire       Stranded copper wire, bare         Conductor type (wire)       strand class 6         Traversing distance (C-track)       10 m @ 25 °C   horizontal         Nominal voltage AC max.       300 V         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity min. wire       12 A         Electrical resistance line constant wire       26 Ω/km @ 20 °C         AC withstand voltage (wire - wire)       2,5 kV @ 60 s         Duwor forequency withstand voltage (wire - wire)       2,5 kV @ 60 s  |
| Outer diameter insulation       1,7 mm         Outer diameter tolerance core insulation       ± 5 %         Shore hardness wire insulation       70 ± 5 Shore D         Ingredient freeness wire insulation       lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         Amount strands (wire)       42         Diameter of single wires       0,15 mm         Conductor crosssection (wire)       0,75 mm²         Material conductor wire       Stranded copper wire, bare         Conductor type (wire)       strand class 6         Traversing distance (C-track)       10 m @ 25 °C   horizontal         Nominal voltage AC max.       300 V         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity min. wire       12 A         Electrical resistance line constant wire       26 Ω/km @ 20 °C         AC withstand voltage (wire - wire)       2,5 kV @ 60 s         Duwer foreupone witheteed withere (wire)       2,5 kV @ 60 s   |
| Outer diameter tolerance core insulation       ± 5 %         Shore hardness wire insulation       70 ± 5 Shore D         Ingredient freeness wire insulation       lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         Amount strands (wire)       42         Diameter of single wires       0,15 mm         Conductor crosssection (wire)       0,75 mm²         Material conductor wire       Stranded copper wire, bare         Conductor type (wire)       strand class 6         Traversing distance (C-track)       10 m @ 25 °C   horizontal         Nominal voltage AC max.       300 V         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity min. wire       12 A         Electrical resistance line constant wire       26 Ω/km @ 20 °C         AC withstand voltage (wire - wire)       2,5 kV @ 60 s         Durger foreurone withstand voltage (wire - wire)       2,5 kV @ 60 s  |
| Shore hardness wire insulation       70 ± 5 Shore D         Ingredient freeness wire insulation       lead-free, cadmium-free, CFC-free, halogen-free, silicone-free         Amount strands (wire)       42         Diameter of single wires       0,15 mm         Conductor crosssection (wire)       0,75 mm²         Material conductor wire       Stranded copper wire, bare         Conductor type (wire)       strand class 6         Traversing distance (C-track)       10 m @ 25 °C   horizontal         Nominal voltage AC max.       300 V         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity min. wire       12 A         Electrical resistance line constant wire       26 Ω/km @ 20 °C         AC withstand voltage (wire - wire)       2,5 kV @ 60 s         Davage for guide to approximate trade unities of the strade constant wire       2,5 kV @ 60 s  |
| Ingredient freeness wire insulationlead-free, cadmium-free, CFC-free, halogen-free, silicone-freeAmount strands (wire)42Diameter of single wires0,15 mmConductor crosssection (wire)0,75 mm²Material conductor wireStranded copper wire, bareConductor type (wire)strand class 6Traversing distance (C-track)10 m @ 25 °C   horizontalNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire12 AElectrical resistance line constant wire26 Ω/km @ 20 °CAC withstand voltage (wire - wire)2,5 kV @ 60 s   |
| Amount strands (wire)42Diameter of single wires0,15 mmConductor crosssection (wire)0,75 mm²Material conductor wireStranded copper wire, bareConductor type (wire)strand class 6Traversing distance (C-track)10 m @ 25 °C   horizontalNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire12 AElectrical resistance line constant wire26 Ω/km @ 20 °CAC withstand voltage (wire - wire)2,5 kV @ 60 s  |
| Diameter of single wires0,15 mmConductor crosssection (wire)0,75 mm²Material conductor wireStranded copper wire, bareConductor type (wire)strand class 6Traversing distance (C-track)10 m @ 25 °C   horizontalNominal voltage AC max.300 VCurrent load capacity (standard)to DIN VDE 0298-4Current load capacity min. wire12 AElectrical resistance line constant wire26 Ω/km @ 20 °CAC withstand voltage (wire - wire)2,5 kV @ 60 s   |
| Conductor crosssection (wire)       0,75 mm²         Material conductor wire       Stranded copper wire, bare         Conductor type (wire)       strand class 6         Traversing distance (C-track)       10 m @ 25 °C   horizontal         Nominal voltage AC max.       300 V         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity min. wire       12 A         Electrical resistance line constant wire       26 Ω/km @ 20 °C         AC withstand voltage (wire - wire)       2,5 kV @ 60 s   |
| Material conductor wire       Stranded copper wire, bare         Conductor type (wire)       strand class 6         Traversing distance (C-track)       10 m @ 25 °C   horizontal         Nominal voltage AC max.       300 V         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity min. wire       12 A         Electrical resistance line constant wire       26 Ω/km @ 20 °C         AC withstand voltage (wire - wire)       2,5 kV @ 60 s  |
| Conductor type (wire)       strand class 6         Traversing distance (C-track)       10 m @ 25 °C   horizontal         Nominal voltage AC max.       300 V         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity min. wire       12 A         Electrical resistance line constant wire       26 Ω/km @ 20 °C         AC withstand voltage (wire - wire)       2,5 kV @ 60 s   |
| Traversing distance (C-track)       10 m @ 25 °C   horizontal         Nominal voltage AC max.       300 V         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity min. wire       12 A         Electrical resistance line constant wire       26 Ω/km @ 20 °C         AC withstand voltage (wire - wire)       2,5 kV @ 60 s         Power frequency withstand voltage (wire)       2,5 kV @ 60 s   |
| Nominal voltage AC max.       300 V         Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity min. wire       12 A         Electrical resistance line constant wire       26 Ω/km @ 20 °C         AC withstand voltage (wire - wire)       2,5 kV @ 60 s  |
| Current load capacity (standard)       to DIN VDE 0298-4         Current load capacity min. wire       12 A         Electrical resistance line constant wire       26 Ω/km @ 20 °C         AC withstand voltage (wire - wire)       2,5 kV @ 60 s         Perver frequency withstand voltage (wire)       2,5 kV @ 60 s  |
| Current load capacity min. wire     12 A       Electrical resistance line constant wire     26 Ω/km @ 20 °C       AC withstand voltage (wire - wire)     2,5 kV @ 60 s   |
| Electrical resistance line constant wire       26 Ω/km @ 20 °C         AC withstand voltage (wire - wire)       2,5 kV @ 60 s         Rewore frequency withstand voltage (wire)  |
| AC withstand voltage (wire - wire) 2,5 kV @ 60 s   |
| Power frequency withstand voltage (wire  |
| Power frequency withstand voltage (wire - 2.5 kV @ 60 s  |
| jacket) 2,5 kV @ 60 S  |
| Min. operating temperature (static) -40 °C   |
| Max. operating temperature (fixed) 80 °C / 90 °C @ 10000 h Operation   |
| Operating temperature min. (dynamic) -25 °C  |
| Operating temperature max. (dynamic) 80 °C / 90 °C @ 10000 h Operation   |
| UV resistance DIN EN ISO 4892-2 A  |
| Flame resistance UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2   |
| chemical resistance Good, application-related testing  |
| Gasoline resistance Good, application-related testing  |
| Oil resistance DIN EN 60811-404   Good, application-related testing  |
| Bending radius (fixed) 5 x Outer diameter  |
| Bending radius (dynamic)     10 x Outer diameter   |
| Travel speed (C-track) 10 Mio. @ 25 °C   |
| No. of torsion cycles 2 Mio.   |
| Torsion stress ± 180 °/m   |
| Torsion speed 35 cycles/min  |

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