

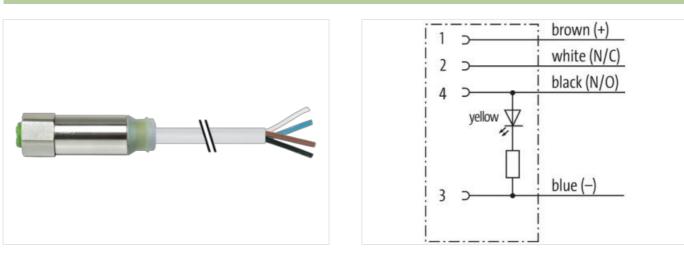
## M12 Steel female 0° A-cod. with cable LED

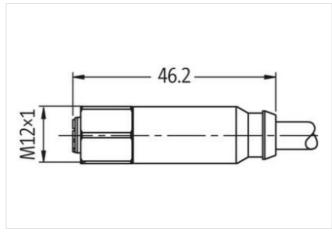
TPE-S 4x0.34 gy 30m

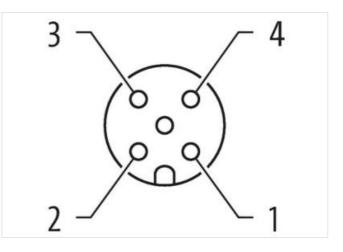
F&B-Steel Female straight M12, 4-pole 1× LED (PNP) Further cable lengths on request.

## Link to Product

## Illustration







Product may differ from Image

Cable length	30 m
Side 1	
Tightening torque	0,6 Nm
Family construction form	M12
Thread	M12 x 1
Coding	A
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP68, IP69K
Commercial data	

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: 2024-06-02

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ELLASS 7.0       2779218         ECLASS 7.0       2779218         ECLASS 6.0       2779219         Descins indication LED       24 V         Operating voltage DC       24 V         Device procedintal Eduction       4 A         Diation Degree       3         Addition Condition       2         Eduction Legree       3         Rectaracit data       38 V         Material group (ED 6064-1)       1         Material group (ED 6064-1)       1         Material group (ED 6064-1)       1         Material group (ED 60664-1)       1	ECLASS-6.0	27279218
ECL4SS-00         27960311           ETM-5.0         EC0031855           automs tariff number         8544290           GTN         404887826770           Packaging unit         1           Electrical data [ Supply         Electrical data [ Supply           Operating voltage DC nu.         20           Operating voltage DC nu.         30 V           Current operating per contact max.         4 A           Dispositie         Electrical data [ Supply           Operating voltage DC nu.         30 V           Current operating per contact max.         4 A           Dispositie         Electrical           Additional condition protection degree         Inserted, screwed           Patient organization of the operation of the operat	ECLASS-7.0	27279218
ETH 4-0         EC001985           customs tarill number         8544290           GTN         40487555770           Packagn unit         1           Eletrical dia J Suppy            Operating voltage DC         24 V           Operating voltage DC max.         30 V           Current operating voltage DC max.         30 V           Current operating voltage DC max.         30 V           Current operating voltage DC max.         4 A           Degrating voltage DC max.         30 V           Current operating voltage DC max.         4 A           Degrating voltage DC max.         30 V           Exercise diverse	ECLASS-8.0	27279218
outsmits utif number         8444290           OTIN         4048579525770           Packaging unit         1           Electrical data   Supply            Operating voltage DC         24 V           Operating voltage DC min.         30 V           Concernition of the supple contact max.         4 A           Disposition         30 V           Concernition of the supple contact max.         4 A           Disposition         yellow           Bedie protection [Electrical            Additional condition protection degree         inserted, screweid           Polizion Degree         3           Rated surge voltage         0.8 kV           Material group (EC 6086-1)         1           Hechanical data         Material group (EC 6086-1)           Contror for corrogated hose         without           Mechanical data         Material group (EC 6086-1)           Locking mathal         Sainless ateal 1.404 (V4A)           Mechanical data         Material group (EC 6086-1)           Locking mathal         Sainless ateal 1.404 (V4A)           Mechanical data         Material group (EC 6086-1)           Locking mathal         Sainless ateal 1.404 (V4A)           Mechanical data         Mat	ECLASS-9.0	27060311
GTN     4040979525770       Packaging unit     1       Electrical dia is Supply     Coperating voltage DC       Operating voltage DC max.     30 V       Corrent operating DC max.     4 A       Dispositio     30 V       Corrent operating DC max.     4 A       Dispositio     yellow       Device protection   Electrical       Additional condition protection degree     inserted, screwed       Patiation Adapter Of Construct     Operating voltage       Material data     0.8 NV       Material data     United Construct       Locking material     0.8 NV       Material data     Material data       Locking material     Stainless stele 1.4004 (VAA)       Mechanical data     Inserted, screwed, Staiking protection       Environmental characteristics   Climate     Inserted, screwed, Staiking protection       Environmental characteristics   Climate     Additional condition temperature min.       Additional condition temperature min.     40 °C       Operating temperature min.     40 °C       Operating temperature min.     40 °C       Operating temperature min.     Adtion of condition temperature min.       Adt	ETIM-5.0	EC001855
Packaging unit         1           Electrical data   Supply         Image: Control (Control)           Operating voltage DC         24 V           Operating voltage DC max.         30 V           Convert operating per contract max.         4 A           Dispositie         Image: Control (Control)           Dispositie         Image: Control (Control)           Device protection [Electrical         yollow           Device protection [Clectrical         Image: Control (Contro)           Additional condition protection degree         Image: Control (Control)           Polition Degree         3           Relatia surge voltage         0.8 kV           Material group (ICC 6066-1)         1           Mechanical data         Material group (ICC 6066-1)           Contour for corrugated hose         without           Mechanical data         Material group (ICC 6066-1)           Evation and tata         Image: Control (Contro)           Material group (ICC 6066-1)         1           Mechanical data         Material group (ICC 6066-1)           Evations of data (Mounting data         Image: Control (Contro)           Material group (ICC 6066-1)         Image: Control (Contro)           Coperating temperature max.         85 °C           Matont c	customs tariff number	85444290
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Operating voltage DC min.         19 V           Operating voltage DC max.         30 V           Cirurent operating per contact max.         4 A           Dispositics         Status indication LED           Status indication LED         yellow           Device protection [Electrical         Additional condition protection degree           Additional condition protection degree         3           Rated surge voltage         0.8 kV           Material group (EC 60064-1)         1           Mechanical data         Contrus of corrupated hose           Contrus of corrupated hose         without           Mechanical data   Mounting data         Stainless steel 1.4404 (V4A)           Mounting method         inserted, screwed, Staking protection           Environmental characteristics   Gimatic         Comparing temperature min.           Operating temperature min.         40 °C           Operating temperature may         depending on cable quality           Importal installation notes         Note on tatain digita<	Operating voltage DC	24 V
Operating voltage DC max.         30 V           Current operating per contact max.         4 A           Diagnostics         Status indication LED         yellow           Device protection   Electrical		18 V
Current operating per contact max.         4 A           Diagnostics         Status indication LED         yelow           Device protection [Electrical         Additional condition protection degree         inserted, screwed           Pollution Dagree         3         Reade surge southage         0.8 kV           Material group (EC 60684-1)         1         Inserted, screwed         Inserted, screwed           Mechnical data         Contru for corrugate hose         without         Mechnical data         Inserted, screwed, Shaking protection           Looking material         Material group (EC 60684-1)         1         Inserted, screwed, Shaking protection           Mechnical data [Muterial data         Stainless steel 1.4404 (V4A)         Inserted, screwed, Shaking protection         Inserted, screwed, Shaking protection           Mounting method         inserted, screwed, Shaking protection         Inserted, screwed, Shaking protection         Inserted, screwed, Shaking protection           Operating temperature mix.         40 °C         Operating temperature max.         85 °C           Additional condition temperature max.         85 °C         Inserted screwed, state permissible bending radii when laying cables, as the IP protection dass can be endangered by excessive bending forces.         Installation cable scale           Installation I cable         Yere the permissible bending radii when laying cables, as the IP prote		30 V
Diagnostics         Status indication LED         yellow           Device protection   Electrical		
Status indication LED     yellow       Device protection   Electrical     inserted, screwed       Addition al condition protection degree     3       Teated surge voltage     0,8 kV       Material group (EC 60664-1)     1       Mechanical data     Contour for corrugated hose     without       Mechanical data   Material data     Stanless steel 1.4404 (V4A)       Mechanical data   Mounting data     Stanless steel 1.4404 (V4A)       Mechanical data   Mounting data     Inserted, screwed, Shaking protection       Environmential characteristics   Climatic     Operating temperature min.     -40 °C       Operating temperature min.     -40 °C     Operating temperature min.       Operating temperature min.     -40 °C     Operating temperature min.       Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ise.       Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ise.       Note on strain relief     Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ise.       Note on strain relief     brown, white, blue, black       Cable identification     336       Labelet Colon     gray       Anount stratneding     1       Wrier arrangement     brown, white, blue, black       Cable identificatio		
Device protection [ Electrical           Addition protection degree         inserted, screwed           Pollation Degree         3           Rade surge voltage         0.8 kV           Material group (IEC 60664+1)         1           Mechanical data         without           Mechanical data   Material group (IEC 60664+1)         1           Mechanical data   Material data         Locking material           Contour for corrupated hose         without           Mechanical data   Material data         Stainless steel 1.4404 (V4A)           Mechanical data   Material data         Stainless steel 4.400 (°C           Operating memperature max.         85 °C           Addition tomeprature max.         85 °C           Addition tomes         Material rescief           Note on stain resif         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable les.           Note on bending radius         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be e		
Additional condition protection degree       inserted, screwed         Pallution Degree       3         Tated surge voltage       0.8 kV         Matchial group (IEC 60664-1)       1         Mechanical data          Contour for corrugated hose       without         Mechanical data   Material data          Locking matching       Stainless steel 1.4404 (V4A)         Mechanical data   Mounting data          Mounting method       inserted, screwed, Shaking protection         Environmental characteristics   Climatic          Operating tomporature max.       85 °C         Additional condition temperature may       85 °C         Additional condition temperature max.       85 °C         Nole on stain reliof       Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.         Nole on bending radius       Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.         Installation (Cable          wrise arangement       brown, white, blue, black <tr< td=""><td></td><td>yellow</td></tr<>		yellow
Pollution Degree       3         Rated surge voltage       0.8 kV         Material group (EC 60684-1)       1         Mechanical data	Device protection   Electrical	
Rated surge voltage       0,8 kV         Material group (IEC 60664-1)       I         Mechanical data       Contour for corrugated hose without         Mechanical data       Stainless steel 1.4404 (V4A)         Mechanical data [ Mounting data       Stainless steel 1.4404 (V4A)         Mechanical data [ Mounting method       inserted, sorewed, Shaking protection         Environmental characteristics [ Climatic       Operating temperature min.       -40 °C         Operating temperature min.       -40 °C       -00 °C         Operating temperature max.       85 °C       -00 °C         Additional condition temperature range       depending on cable quality       -00 °C         Important Installation notes       Note on banding radius       Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.         Installation   Cable	Additional condition protection degree	inserted, screwed
Material group (IEC 60664-1)       I         Mechanical data       Exclusion for corrugated hose         without       Mechanical data   Material data         Locking material       Stainless steel 1.4404 (V4A)         Mechanical data   Mounting data       Inserted, screwed, Shaking protection         Environmental characteristics   Climatic       Operating temperature min.       -40 °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 strain relief       Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.         Installation   Cable       endangered by excessive bending forces.         Installation   Cable       brown, white, blue, black         Cable identification       336         Jacket Color       gray         Amount stranding       1         Stranding       4 wires twisted         wire arrangement       brown, white, blue, black         Cable identification       336         Jacket Color       gray         Aduret al jacket       TPE-S         Sthore hardness jack	Pollution Degree	3
Mechanical data           Contour for corrugated hose         without           Mechanical data   Material data         Italian Stainless steel 1.4404 (V4A)           Mechanical data   Mounting data         Mounting method           Mounting method         inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Coperating temperature min.           Operating temperature max.         85 °C           Additional condition temperature range         depending on cable quality           Important Installation notes         Note on schain relief           Note on bending radius         Attention: Observe the permissible bending radii when laying cables, as the IP protection dass can be endangered by excessive bending forces.           Installation (Cable         Vire arrangement           wire arrangement         brown, white, blue, black           Cable identification         336           Jacket Color         gray           Amount stranding         1           Stranding         4 wires twisted           wire arrangement         brown, white, blue, black           Cable weigh         43.01 g/m           Material jacket         TPE-S           Stornding         4 Storne A           Outer diameter (jacket)         5.2 mm           Tolearanecor	Rated surge voltage	0,8 kV
Contour for corrugated hose         without           Mechanical data   Material data         Stainless steel 1.4404 (V4A)           Mechanical data   Mounting data         Inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Operating temperature min.         -40 °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.           Installation [ Cable         wire arrangement         brown, white, blue, black           Cable identification         336         Jacket Color           Material jacket         TPE-S         Stranding           Stranding         4 wires twisted         Wire arrangement           Drown, while, blue, black         Cable wighth         43.01 g/m           Material jacket         TPE-S         Stranding           Cable wighth         43.01 g/m         Material jacket           TPE-S         Ammunt strainer lisulation         TPE-S           Cohor diameter (jacket)	Material group (IEC 60664-1)	
Mechanical data   Material data           Locking material         Stainless steel 1.4404 (V4A)           Mechanical data   Mounting data         inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Operating temperature main.         40 °C           Operating temperature main.         40 °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.           Installation   Cable         Wrie arrangement         brown, while, blue, black           Gable identification         336         Jacket Color         gray           Amount stranding         1         Stranding         4 wires twisted           Wrie arrangement         brown, white, blue, black         Gable identification         336           Jacket Color         gray         Amount stranding         1         Stranding         4 wires twisted           Material jacket         TPE-S         Shore hardness jacket         80 ± 5 Shore A         Outer diamete	Mechanical data	
Locking material       Stainless steel 1.4404 (V4A)         Mechanical data   Mounting data         Mounting method       inserted, screwed, Shaking protection         Environmental characteristics   Climatic         Operating temperature min.       -40 °C         Operating temperature max.       85 °C         Additional condition temperature range       depending on cable quality         Important installation notes       Important installation notes         Note on strain relief       Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.         Installation   Cable       write arrangement         wire arrangement       brown, white, blue, black         Cable identification       336         Jacket Color       gray         Amount stranding       1         Stranding       4 wires twisted         wire arrangement       brown, white, blue, black         Cable weigh       43.01 g/m         Material jacket       TPE-S         Shore hardness jacket       80 ± 5 %         Outer diameter (jacket)       5.2 mm         Tolerance outer diameter (sheath)       ± 5 %	Contour for corrugated hose	without
Mechanical data   Mounting data           Mounting method         inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Operating temperature min.         -40 °C           Operating temperature max.         85 °C         Additional condition 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.           Installation   Cable         wrise arrangement         brown, white, blue, black           Cable identification         336	Mechanical data   Material data	
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Environmental characteristics   Climatic           Operating temperature min.         -40 °C           Operating temperature max.         85 °C           Additional condition temperature range         depending on cable quality           Important installation notes         Important installation notes           Note on strain relief         Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           Installation   Cable         Important installation of gray           write arrangement         brown, white, blue, black           Cable identification         336           Jacket Color         gray           Amount stranding         1           Stranding         4 wires twisted           Wire arrangement         brown, white, blue, black           Cable weigth         43.01 g/m           Material jacket         TPE-S           Shore hardness jacket         80 ± 5 Shore A           Outer-diameter (jackel)         5.2 mm           Tolerance outer diameter (sheath)         ± 5 %           Material wire insulation         TPE-S           Amount wires         4           Outer-diameter insulation         TPE-S           Shore hardness jacket         80 ± 5 %           Shore hardness wire insulation<	Mechanical data   Mounting data	
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Operating temperature max.       85 °C         Additional condition temperature range       depending on cable quality         Important installation notes       Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.         Note on strain relief       Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.         Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.         Installation   Cable         wire arrangement       brown, while, blue, black         Cable identification       336         Jacket Color       gray         Amount stranding       1         Stranding       4 wires twisted         wire arrangement       brown, while, blue, black         Cable weigth       43.01 g/m         Material jacket       TPE-S         Shore hardness jacket       80 ± 5 Shore A         Outer-diameter (jacket)       5.2 mm         Tolerance outer diameter (sheath)       ± 5 %         Amount wires       4         Outer diameter insulation       1,5 mm         Outer diameter insulation       1,5 mm         Outer diameter insulation       90 ± 5 Shore A	Mounting method	inserted, screwed, Shaking protection
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.         Installation   Cable       wire arrangement         wire arrangement       brown, white, blue, black         Cable identification       336         Jacket Color       gray         Amount stranding       1         Stranding       4 wires twisted         wire arrangement       brown, white, blue, black         Cable weigth       43,01 g/m         Material jacket       TPE-S         Shore hardness jacket       80 ± 5 Shore A         Outer-diameter (sheath)       ± 5 %         Material wire insulation       1,5 mm         Outer diameter tolerance core insulation       ± 5 %         Shore hardness wire insulation       90 ± 5 Shore A	-	inserted, screwed, Shaking protection
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.           Installation   Cable         wire arrangement           wire arrangement         brown, white, blue, black           Cable identification         336           Jacket Color         gray           Amount stranding         1           Stranding         4 wires twisted           wire arrangement         brown, white, blue, black           Cable weigth         43,01 g/m           Material jacket         TPE-S           Shore hardness jacket         80 ± 5 Shore A           Outer-diameter (jacket)         5,2 mm           Tolerance outer diameter (sheath)         ± 5 %           Amount wires         4           Outer diameter tolerance core insulation         1,5 mm	Environmental characteristics   Climatic	
Note on strain reliefProtect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.Note on bending radiusAttention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.Installation   Cablewire arrangementbrown, white, blue, blackCable identification336Jacket ColorgrayAmount stranding1Stranding4 wires twistedwire arrangementbrown, white, blue, blackCable weigth43,01 g/mMaterial jacketTPE-SShore hardness jacket80 ± 5 Shore AOuter diameter (sheath)± 5 %Material wire insulationTPE-SAmount wires4Outer diameter (sheath)± 5 %Shore hardness wire insulation1,5 mmOuter diameter tolerance core insulation1,5 mmOuter diameter tolerance core insulation1,5 mmOuter diameter tolerance core insulation1,5 Shore AOuter diameter tolerance core insulation1,5 shore A	Environmental characteristics   Climatic Operating temperature min.	-40 °C
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.         Installation   Cable         wire arrangement       brown, white, blue, black         Cable identification       336         Jacket Color       gray         Amount stranding       1         Stranding       4 wires twisted         wire arrangement       brown, white, blue, black         Cable identification       336         Jacket Color       gray         Amount stranding       1         Stranding       4 wires twisted         wire arrangement       brown, white, blue, black         Cable weigth       43,01 g/m         Material jacket       TPE-S         Shore hardness jacket       80 ± 5 Shore A         Outer-diameter (jacket)       5,2 mm         Tolerance outer diameter (sheath)       ± 5 %         Material wire insulation       TPE-S         Amount wires       4         Outer diameter tolerance core insulation       1,5 mm         Outer diameter tolerance core insulation       1,5 mm         Outer diameter tolerance core insulation       1,5 mm         Outer diameter tolerance core insulation       ± 5 %	Environmental characteristics   Climatic Operating temperature min. Operating temperature max.	-40 °C 85 °C
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Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free
Amount strands (wire)	180
Diameter of single wires	0,05 mm
Conductor crosssection (wire)	0,34 mm <sup>2</sup>
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	strand class 6
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	4,8 A
Electrical resistance line constant wire	57 Ω/km @ 20 °C
AC withstand voltage (wire - wire)	2,5 kV @ 60 s
Power frequency withstand voltage (wire - jacket)	2,5 kV @ 60 s
Min. operating temperature (static)	-50 °C
Max. operating temperature (fixed)	125 °C
Operating temperature min. (dynamic)	-30 °C
Operating temperature max. (dynamic)	105 °C
Flame resistance	UL 1581 § 1100 FT2   UL 1581 § 1090   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)	10 x Outer diameter
Bending radius (dynamic)	15 x Outer diameter

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