

## M12 female 0° A-cod. with cable shielded

PUR 5x0.34 shielded bk UL/CSA+drag ch. 0.3m

M12, 5-pole Female straight shielded

with cable sleeves

Plastic housings with good resistance against chemicals and oils.

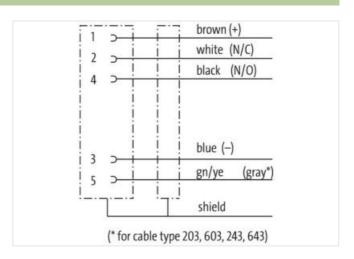
The resistance to aggressive media should be individually tested for your application. Further details on request.

Further cable lengths on request.

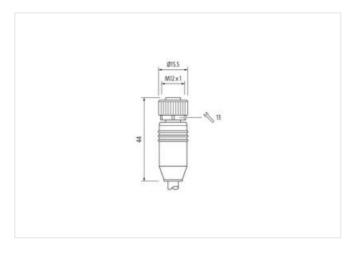
## **Link to Product**

## Illustration









Product may differ from Image













Cable length

0,3 m

Side 1

Tightening torque

0,6 Nm

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: 2024-05-22



stay connected

Family construction form	Mounting method	inserted, screwed	
Tread         MEX 1           Cable outlet         atraight           Cable outlet         atraight           Cable outlet         atraight           Coding         A           Material         PUR           With across flats         SW13           Degree of prosection (EN ISC 00529)         PSE, PSEK, IPG7           Side 2           SIN-poing length (jacket)         20 mm           Commercial data           ECLASS-8.0         2279218           ECLASS-8.0         2779218           ECLASS-9.0         27902011           ECLASS-9.0         27002011           ECLASS		· · · · · · · · · · · · · · · · · · ·	
Cable outlet         straight           Coding         A           Matarial         PUR           Matarial         PUR           Obegree of protein (FLE 60569)         IPSE, PSEK (FB7)           Slobe 2         PSER (FB7)           Stripping largh (jacket)         20 mm           Commercial date         PSER (FB7)           ECLASS-8.0         2779218           ECLASS-8.0         2779218           ECLASS-8.0         2779218           ECLASS-9.0         27006311           ECLASS-9.0         27006311           ECLASS-1.1         27088311           ECLASS-1.2         27088311           ECLASS-1.2         27089311           ECLASS-1.1         27088311           ECLASS-1.2         27089311           ETIM-5.0         EXECUTATION (FBR)           OTIN         494897864710           PADAGRAPI (JATA)         494897864710           PORAGRAPI (JATA)         494997864710           Operating voltage AC (TBR)         60 V           Operating voltage AC (TBR)         60 V           Operating voltage AC (TBR)         4 A           Institution (Connection         30 V           Operating voltage DC (UL-lated)			
Coding         A           Medianal         PUR           Medianal         PUR           Worth across flats         SW13           Degree of protection (EN EC 60529)         IPSE, IPSEK, IPS7           Stripping length (acket)         20 mm           Commercial data           ECLASS 7.0         27279218           ECLASS 7.0         27279218           ECLASS 8.0         2779218           ECLASS 9.0         27080311           ECLASS 10.1         27080311           ECLASS 11.1         27080311           ECLASS 12.0         27080311         27080311 <th col<="" td=""><td></td><td></td></th>	<td></td> <td></td>		
Meterial         PUR           With a across flats         SW13           Degree of proction (EN EC 00529)         IP65, IP66K, IP67           Side 2         Sirpign (glocket)         20 mm           Commercial data           ECLASS-6.0         2779218           ECLASS-7.0         2779218         20           ECLASS-8.0         2779218         20           ECLASS-9.0         2700311         20           ECLASS-9.1         2700311         20           ECLASS-1.1         2700311         20           ECLASS-1.2.0         200311         20           ETIM-5.0         E001855         20           COLASS-1.1         40487964710         20           ETIM-5.0         40487964710         20           Packaging unit         1         1           Electrical data i Suppiv         20         20           Operating voltage AC max.         60 V         20           Operating voltage AC (EU-leised)         30 V         20           Current operating per contact max.         4 A         20           Installation (Common tortect on degree         10 mm         20           Diffusion (Degree)         3.0		<del>-</del>	
With across field         SW13           Degree of protection (EN IEC 60529)         IPS6, IP66K, IP67           Side 2         Stripping length (lacker)         20 mm           Commercial data           ECLASS 6.0         2.2739218           ECLASS-7.0         2.7279218           ECLASS-8.0         2.7279218           ECLASS-9.0         2.7060311           ECLASS-9.1         2.7060311           ECLASS-10.1         2.7060311           ECLASS-10.2         2.7060311           ECLASS-12.0         2.7060311           ECLASS-12.			
Degree of protection (EN IEC 60828)         IP65, IP68/F, IP67           Side 2         Sige 2           Side 2         Sige 2           Commercial data           ECLASS-8.0         2779218           ECLASS-8.0         27279218           ECLASS-8.0         2709311           ECLASS-9.0         2700311           ECLASS-1.1         27069311           ECLASS-1.2         27069311           ECLASS-1.3         2700311           ECLASS-1.2.0         27069311           ECLASS-1.2.0         27069311           ETIM-5.0         EC001955           Gualonis staff number         8444280           GTIN         40487946710           Packaging unit         1           Electrical data   Supply           Operating voltage AC max.         60 V           Operating voltage AC max.         60 V <t< td=""><td></td><td></td></t<>			
Side 2           Stripping length (lacket)         20 mm           Commercial data           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-9.0         27060311           ECLASS-9.0         27060311           ECLASS-10.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ECLASS-13.1         27060311           ECLASS-10.1         27060311           ECLASS-10.2         27060311           ECLASS-10.1         27060311           ECLASS-10.2         27060311           ECLASS-10.1         40487964710           Packaging unit         1           Electrical data I Supply         0			
Stripping length (jacket)   20 mm		1P65, 1P66K, 1P67	
Commercial data           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-9.0         27060311           ECLASS-9.1         27060311           ECLASS-1.1         27060311           ECLASS-1.2.0         27060311           ETLASS-1.2.0         27060311           EVELOPLICASS-1.2.0         30.0           Operating ovoltage AC (IU-Island)         30.0           Operating ovoltage AC (IU-Island)         30.0           Operating ovoltage AC (IU-Island)         30.0	Side 2		
ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-9.0         27060311           ECLASS-9.0.1         27060311           ECLASS-10.1         27060311           ECLASS-12.0         27060311           ECLASS-12.0         27060311           ETIM-5.0         EC001855           Loustons tariff number         8544280           GTIN         4048879640710           Packaging unit         1           Electrical data   Supply           Operating voltage AC max.         60 V           Operating voltage AC max.         60 V           Operating voltage AC (UL-listed)         30 V           Current operating per contact max.         4 A           Portaging voltage AC (UL-listed)         30 V           Current operating per contact max.         4 A           Installation   Connection         Stripping length (jacket)           Stripping length (jacket)         20 mm           Mounting set         M12 x 1           Additional condition protection legree         Inserted, screwed           Pollution Degree         1,5 kV           Material grup (IEC 6064-1)         I           Mechanical data   Material data         Mickeled	Stripping length (jacket)	20 mm	
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         EC01855           customs staff number         85444290           GTIN         40487964070           Packaging unt         1           Electrical data   Suply         60 V           Operating voltage AC max.         60 V           Operating voltage AC (UL-listed)         30 V           Operating voltage AC (UL-listed)         30 V           Current operating per contact max.         4 A           Institution   Connection         Stripping length (jacket)           Stripping length (jacket)         20 mm           Mounting set         M12 x 1           Gender         female           Device protection   Electrical           Additional condition protection degree         3           Raterial group (IEC 80684-1)         1           Machanical data   Material data         Vichead           Coating folking         Nickeled           Coating folking         nickel plated           Locking material	Commercial data		
ECLASS-8.0         27279218           ECLASS-9.0         27060311           ECLASS-10.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ECLASS-12.0         27060311           ETIM-5.0         EC01855           outoms tariff rumber         85444280           GTIN         4048879646710           Packaging unt         1           Electrical data   Supply         Operating voltage AC max.           Operating voltage AC max.         60 V           Operating voltage DC max.         60 V           Operating voltage AC (UL-listed)         30 V           Operating voltage AC (UL-listed)         30 V           Operating voltage PC (UL-listed)         30 V           Operating voltage PC (UL-listed)         30 V           Operating voltage PC (UL-listed)         30 V           Mounting set         M12 x 1           Gender         female           Device protection   Electrical           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Reteat surge voltage         1,5 kV           Material group (ICE 60684-1)         1           Conto	ECLASS-6.0	27279218	
ECLASS 9.0         27060311           ECLASS 9.0.1         27060311           ECLASS 9.0         27060311           ECLASS 9.1.2.0         27060311           ETIM 5.0         EC001855           customs tariff number         8544290           GTIN         4048879646710           Packaging unit         1           Electrical data   Supply         Electrical data   Supply           Operating voltage AC max.         60 V           Operating voltage AC (UL-listed)         30 V           Operating voltage DC max.         60 V           Operating voltage AC (UL-listed)         30 V           Current operating per contact max.         4 A           Installation   Connection         30 V           Current operating per contact max.         4 A           Mounting set         M12 x 1           Gender         female           Device protection   Electrical           Additional condition protection degree         3           Rated surge voltage         1,5 kV           Material group   Eco664-1)         1           Mechanical data   Material data           Coating locking         Nickeled           Coating locking material         Zinc die-casting           Mec	ECLASS-7.0	27279218	
ECLASS-10.1         27060311           ECLASS-11.2         27060311           ETIM-5.0         EC001855           customs tarilf number         85444290           GTIN         4048879646710           Packaging unit         1           Electrical data   Supply           Operating voltage AC max.         60 V           Operating voltage AC max.         60 V           Operating voltage AC (UL-listed)         30 V           Installation   Connection         V           Stripping length (jacket)         20 mm           Mounting set         M12 x 1           Gender         female           Device protection   Electrical           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         1,5 kV           Material group (EC 60684-1)         1           Nechanical data         Mickeled           Conting of corrupated hose         without           <	ECLASS-8.0	27279218	
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ECLASS-12.0         27060311           ETIM-5.0         EC001855           customs tariff rumber         85444290           GTIN         4048879648710           Packaging unit         1           Electrical data   Supply         V           Operating voltage AC max.         60 V           Operating voltage DC max.         60 V           Operating voltage DC (UL-listed)         30 V           Current operating per contact max.         4 A           Installation   Connection         Stripping length (jacket)           Stripping length (jacket)         20 mm           Mounting set         M12 x 1           Gender         female           Device protection   Electrical           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         1,5 kV           Material group (IEC 60684-1)         I           Mechanical data         Without           Mechanical data   Material data         Zinc die-casting           Mechanical data   Material data         Zinc die-casting           Material screw connection         Zinc die-casting           Mechanical data   Mounting data         Inserted, screwed, Shaking protection <td>ECLASS-10.1</td> <td>27060311</td>	ECLASS-10.1	27060311	
ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879646710           Packaging unit         1           Electrical data   Supply         V           Operating voltage AC max.         60 V           Operating voltage AC (UL-listed)         30 V           Operating voltage AC (UL-listed)         30 V           Operating voltage AC (UL-listed)         30 V           Current operating per contact max.         4 A           Installation   Connection         V           Stripping length (gacket)         20 mm           Mounting set         M12 x 1           Gender         female           Device protection   Electrical           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         1,5 kV           Material group (IEC 60684-1)         1           Mechanical data         Vibrout           Control for corrugated hose         without           Mechanical data   Material data         Zinc die-casting           Material grow (recommendal data   Material data   Material data   Zinc die-casting           Mechanical data   Mounting data   Mounting data   Mounting data   Mounting data   Mounting	ECLASS-11.1	27060311	
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GTIN         4048879646710           Packaging unit         1           Electrical data   Supply           Operating voltage AC max.         60 V           Operating voltage DC max.         60 V           Operating voltage DC (UL-listed)         30 V           Operating voltage DC (UL-listed)         30 V           Current operating per contact max.         4 A           Installation   Connection         V           Stripping length (jacket)         20 mm           Mounting set         M12 x 1           Gender         female           Device protection   Electrical           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         1,5 kV           Material group (IEC 60664-1)         I           Mechanical data         Without           Mechanical data   Material data         Mickeled           Coating of lifting         nickele plated           Locking material         Zinc die-casting           Material screw connection         Zinc die-casting           Methanical data   Mounting data         inserted, screwed, Shaking protection           Environmental characteristics   Climatic         25 °C	ETIM-5.0	EC001855	
Packaging unit         1           Electrical data   Supply           Operating voltage AC max.         60 V           Operating voltage AC (UL-listed)         30 V           Operating voltage DC (UL-listed)         30 V           Current operating per contact max.         4 A           Installation   Connection         University (Included)           Stripping length (jacket)         20 mm           Mounting set         M12 x 1           Gender         female           Poliution Degree         3           Rated surge voltage         1,5 kV           Material group (IEC 60664-1)         1           Rechanical data         Without           Mechanical data   Material data         Without           Coating locking         Nickeled           Coating locking         Nickeled           Coating locking material         Zinc die-casting           Material screw connection         Zinc die-casting           Mechanical data   Mounting data         Vinc die-casting           Mechanical data   Mounting data         Vinc die-casting           Mechanical data   Mounting data         Vinc die-casting           Mounting method         inserted, screwed, Shaking protection           Environmental characteristics   Climatic<	customs tariff number	85444290	
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Operating voltage DC max.         60 V           Operating voltage AC (UL-listed)         30 V           Operating voltage DC (UL-listed)         30 V           Current operating per contact max.         4 A           Installation   Connection         V           Stripping length (jacket)         20 mm           Mounting set         M12 x 1           Gender         female           Device protection   Electrical           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         1,5 kV           Material group (IEC 60664-1)         1           Mechanical data   Material data         Vince of corrugated hose         without           Coating locking         Nickeled           Coating locking         Nickeled           Coating locking         nickel plated           Locking material         Zinc die-casting           Material screw connection         Zinc die-casting           Mechanical data   Mounting data         Inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Coperating temperature max.         85 °C           Additional condition temperature max.         85 °C	Electrical data   Supply		
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Installation   Connection  Stripping length (jacket) 20 mm  Mounting set M12 x 1  Gender female  Device protection   Electrical  Additional condition protection degree inserted, screwed  Pollution Degree 3  Rated surge voltage 1,5 kV  Material group (IEC 60664-1) I  Mechanical data  Contour for corrugated hose without  Mechanical data   Material data  Coating locking Nickeled  Coating of fitting nickel plated  Locking material Screw connection Zinc die-casting  Mechanical data   Muntting data  Mechanical data   Muntting da	Current operating per contact max.	4 A	
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Gender female  Device protection   Electrical  Additional condition protection degree inserted, screwed  Pollution Degree 3  Rated surge voltage 1,5 kV  Material group (IEC 60664-1) I  Mechanical data  Contour for corrugated hose without  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 min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality		M12 x 1	
Additional condition protection degree inserted, screwed  Pollution Degree 3 Rated surge voltage 1,5 kV  Material group (IEC 60664-1) I  Mechanical data  Contour for corrugated hose without  Mechanical data   Material data  Coating locking Nickeled  Coating of fitting nickel plated  Locking material  Locking material  Material screw connection Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality		female	
Additional condition protection degree inserted, screwed  Pollution Degree 3 Rated surge voltage 1,5 kV  Material group (IEC 60664-1) I  Mechanical data  Contour for corrugated hose without  Mechanical data   Material data  Coating locking Nickeled  Coating of fitting nickel plated  Locking material  Locking material  Material screw connection Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality	Device protection   Electrical		
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Material group (IEC 60664-1)  Mechanical data  Contour for corrugated hose without  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 min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality			
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Contour for corrugated hose without  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 min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality			
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 min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality	Mechanical data		
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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 min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality	Mechanical data   Material data		
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 min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality	Coating locking	Nickeled	
Material screw connection  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality	Coating of fitting	nickel plated	
Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality	Locking material	Zinc die-casting	
Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality	Material screw connection	Zinc die-casting	
Environmental characteristics   Climatic  Operating temperature min.  Operating temperature max.  Operating temperature max.  Additional condition temperature range  depending on cable quality	Mechanical data   Mounting data		
Operating temperature min.  -25 °C  Operating temperature max.  85 °C  Additional condition temperature range depending on cable quality	Mounting method	inserted, screwed, Shaking protection	
Operating temperature max. 85 °C Additional condition temperature range depending on cable quality	Environmental characteristics   Climatic		
Operating temperature max. 85 °C Additional condition temperature range depending on cable quality	Operating temperature min.	-25 °C	
Additional condition temperature range depending on cable quality		85 °C	
		depending on cable quality	

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stay connected

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	<b>Attention:</b> 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	
wire arrangement	brown, black, blue, white, gray
Cable identification	643
Cable Type	3
Jacket Color	black
Type of Certificate	cURus
Amount stranding	1
Stranding	5 wires around Core filler twisted
Cable shielding (type) Cable shielding (coverage)	copper braid, tinned  80 %
<u> </u>	
Banding	Fleece, Foil
Filler	yes
wire arrangement	brown, black, blue, white, gray
Cable weigth	57,2 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)	5,6 mm
Folerance outer diameter (sheath)	± 5 %
Material wire insulation	PP
Amount wires	5
Outer diameter insulation	1,25 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	0,1 mm
Conductor crosssection (wire)	0,34 mm <sup>2</sup>
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	strand class 6
Nominal voltage AC max.	300 V
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	4,5 A
Electrical resistance line constant wire	57 Ω/km @ 20 °C
AC withstand voltage (wire - wire)	2 kV @ 60 s
Power frequency withstand voltage (wire - acket)	2 kV @ 60 s
AC withstand voltage (wire - shield)	2 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
JV resistance	DIN EN ISO 4892-2 A
Flame resistance	UL 1581 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090
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

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No. of bending cycles (C-track)	5 Mio. @ 25 °C
Traversing distance (C-track)	5 m @ 25 °C   horizontal
Travel speed (C-track)	3,3 m/s @ 25 °C
No. of torsion cycles	2 Mio.
Torsion stress	± 30 °/m
Torsion speed	35 cycles/min