

## M12 fem. recept. D-cod. rear/RJ45 male 0° shielded

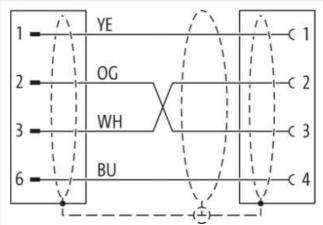
PUR 1x4xAWG22 shielded gn UL/CSA+drag ch. 0.5m

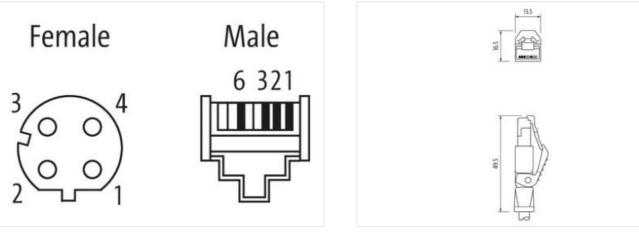
Product fulfills requirements according to UN/ECE R118 Ethernet CAT5 Plastic housings with good resistance against chemicals and oils. Flange female straight – male straight M12 – RJ45, 4-pole D-coded shielded 8-pole partly used Rear mounting Transmission properties with channel transmission up to 100 m Further cable lengths on request.

## Link to Product

Illustration







Product may differ from Image



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Side 1      Tipfaring torque      0.6 Nm        Family construction form      M12        Thread      M12 x 1        suitable for corrugated tube (internal Ø)      10 mm        Coding      D        Material      PUR        Degree of protection (EN IEC 60529)      IP67        Side 2      Coding        Coding for corrugated tube (internal Ø)      Index plated        Family construction form      RJ45        Material      Brass        Degree of protection (EN IEC 60529)      IP20        Commercial data      ECLASS 4.0        ECLASS 4.0      2726702        ECLASS 4.0      27247030        ECLASS 4.0      27440103        ECLASS 4.0      27440103        ECLASS 4.0      27440103        ECLASS 4.1      27440103        ECLASS 4.2.0      27440103	Cable length	0,5 m	
Family construction form      M12        Thread      M12 x 1        suitable for corrugated tube (internal 0)      10 mm        Coding      D        Material      PUR        Dagree of protection (EN IEC 60529)      IP67        Side 2      Coding head        Coating head      nickel plated        Family construction form      R145        Material      Brass        Dagree of protection (EN IEC 60529)      IP20        Commercial data      ECLASS-6.0        ECLASS-6.1      27279200        ECLASS-6.1      27279200        ECLASS-6.1      27279200        ECLASS-6.0      27440103        ECLASS-7.0      27440103        ECLASS-7.0      27440103        ECLASS-7.0      27440103        ECLASS-7.1      27440103        ECLASS-7.2      27440103	Side 1		
Family construction form      M12        Thread      M12 x 1        suitable for corrugated tube (internal 0)      10 mm        Coding      D        Material      PUR        Degree of protection (EN IEC 60529)      IP67        Side 2      Coding head        Coaling head      nickel plated        Family construction form      R145        Material      Brass        Degree of protection (EN IEC 60529)      IP20        Commercial data      ECLASS-6.0        ECLASS-6.0      27260702        ECLASS-6.1      27279220        ECLASS-7.0      27440103        ECLASS-8.0      27440103        ECLASS-8.0      27440103        ECLASS-1.1      27440103        ECLASS-1.2      27440103        ECLASS-1.1      27440103        ECLASS-12.0      27440103	Tightening torque	0.6 Nm	
Thread      M12 x 1        suitable for corrugated tube (internal Ø)      10 mm        Coding      D        Material      PUR        Dagree of protection (EN IEC 60529)      IP67        Side 2      Coating head      nickel plated        Family construction form      RL45        Material      Brass      Degree of protection (EN IEC 60529)        Degree of protection (EN IEC 60529)      IP20        Commercial data      ECLASS 4.0      27260702        ECLASS 4.0      27280702        ECLASS 4.0      27240103        ECLASS 4.0      27440103        ECLASS 4.0      ECASS 4.0        CATS 5.0      EC			
Coding      D        Material      PUR        Degree of protection (EN IEC 60529)      IP67        Side 2      Coating head      nickel plated        Family construction form      RJ45        Material      Degree of protection (EN IEC 60529)      IP20        Commercial data      ECLASS 4.0      27260702        ECLASS 5.0      27260702      ECLASS 5.0        ECLASS 5.0      27240103      ECLASS 5.0        ECLASS 5.0      27440103      ECLASS 5.0        ECLASS 5.0.0      27440103      ECLASS 5.0.1        ECLASS 5.1.1      27440103      ECLASS 5.1.2        ECLASS 5.1.0      27440103      ECLASS 5.1.2        ECLASS 5.1.0      27440103      ECLASS 5.1.2        ECLASS 5.1.0      27440103      ECLASS 5.1.2        ECLASS 5.1.1      27440103      ECLASS 5.1.2        ETIM 5.0      ECO000000000000000000000000000000000000			
Material  PUR    Degree of protection (EN IEC 60529)  IP67    Side 2	suitable for corrugated tube (internal $\emptyset$ )	10 mm	
Degree of protection (EN IEC 60529)      IP67        Side 2	Coding	D	
Side 2        Coating head      nickel plated        Family construction form      RJ45        Material      Brass        Degree of protection (EN IEC 60529)      IP20        Commercial data      ECLASS-6.0        ECLASS-6.1      27279220        ECLASS-6.0      27440103        ECLASS-8.0      27440103        ECLASS-9.0      27440103        ECLASS-10.1      27440103        ECLASS-10.1      27440103        ECLASS-10.2      27440103        ECLASS-10.1      27440103        ECLASS-10.2      27440103        ECLASS-10.2      27440103        ECLASS-12.0      27440103        ECLASS-12.0      27440103        ETM-5.0      EC002599        customs tariff number      8544220        GTIN      4048879714594        Packaging unit      1        Electrical data   Supply         Operating voltage DC max.      60 V        Operating voltage DC max.      60 V        Operating voltage DC max.      10 MBit/s        Industrial communication      IT	Material	PUR	
Coating head      nickel plated        Family construction form      RJ45        Material      Brass        Degree of protection (EN IEC 60529)      IP20        Commercial data      E        ECLASS-6.0      27260702        ECLASS-6.1      27279220        ECLASS-7.0      27440103        ECLASS-8.0      27440103        ECLASS-8.0      27440103        ECLASS-10.1      27440103        ECLASS-11.1      27440103        ECLASS-12.0      27440103        ECLASS-12.0      27440103        ECLASS-12.0      27440103        ECLASS-12.0      27440103        ETIM-5.0      EC002599        customs tariff number      85444290        GTIN      404887914594        Packaging unit      1        Electrical datal Supply      50 V        Operating voltage DC max.      60 V        Operating voltage DC max.      60 V        Operating voltage DC max.      100 MBIt/s        Industrial communication      100 MBIt/s        Industrial communication      100 MBIt/s        Indu	Degree of protection (EN IEC 60529)	IP67	
Family construction form      RJ45        Material      Brass        Degree of protection (EN IEC 60529)      IP20        Commercial data      ECLASS 6.0        ECLASS 6.0      27260702        ECLASS 6.1      27279220        ECLASS 7.0      27440103        ECLASS 8.0      27440103        ECLASS 9.0      ECO02599        oustoms tariff number      8544230        GTIN      4048879714594        Deperating	Side 2		
Material      Brass        Degree of protection (EN IEC 60529)      IP20        Commercial data      ECLASS 6.0      27260702        ECLASS 6.1      27279220      ECLASS 6.1      27279220        ECLASS 7.0      27440103      ECLASS 6.0      ECLASS 6.0        ECLASS 7.0      27440103      ECLASS 7.0      ECLASS 7.0        ECLASS 9.0      27440103      ECLASS 7.0      ECLASS 7.0        ECLASS 1.1      27440103      ECLASS 7.0      ECLASS 7.0        ECLASS 1.1      27440103      ECLASS 7.0      ECLASS 7.0        ECLASS 1.1      27440103      ECLASS 7.0      ECLASS 7.0        ECLASS 1.0      27440103      ECLASS 7.0      ECLASS 7.0        ECLASS 1.1      27440103      ECLASS 7.0      ECLASS 7.0        ECLASS 1.0      ECMASS 7.0      ECMASS 7.0      ECMASS 7.0        ECLASS 1.1      27440103      ECLASS 7.0      ECMASS 7.0        ECLASS 1.0      ECMASS 7.0      ECMASS 7.0      ECMASS 7.0        ECLASS 1.1      17440103      ECMASS 7.0      ECMASS 7.0        Gutom Startiff number      8544290      GUTN	Coating head	nickel plated	
Degree of protection (EN IEC 60529)      IP20        Commercial data      ECLASS-6.0      27260702        ECLASS-6.1      27279220      ECLASS-6.1      27279220        ECLASS-7.0      27440103      ECLASS-8.0      27440103        ECLASS-8.0      27440103      ECLASS-9.0      27440103        ECLASS-9.0      27440103      ECLASS-9.0      ECLASS-9.0        ECLASS-11.1      27440103      ECLASS-9.0      ECLASS-9.0        ECLASS-11.1      27440103      ECLASS-9.0      ECLASS-9.0        ECLASS-11.1      27440103      ECLASS-9.0      ECLASS-9.0        ECLASS-11.1      27440103      ECLASS-9.0      ECO2599        customs tariff number      85444290      Ecoresing      Ecoresing        Current operating voltage DC max.      60 V      Operating voltage DC max.      60 V        Operating voltage DC max.      1.5 A      Industrial communication      Industrial communication        Transfer parameters      CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)      Data transmission rate max.      100 MBit/s        Industrial communication   Ethernet functionality      Updex      Fuil duplex      Industrial communi	Family construction form		
Commercial data        ECLASS-6.0      27260702        ECLASS-6.1      27279220        ECLASS-7.0      27440103        ECLASS-8.0      27440103        ECLASS-9.0      27440103        ECLASS-10.1      27440103        ECLASS-11.1      27440103        ECLASS-11.1      27440103        ECLASS-12.0      ECO2599        customs tariff number      85442290        GTIN      4048379714594        Packaging unit      1 </td <td>Material</td> <td>Brass</td>	Material	Brass	
ECLASS-6.0      27260702        ECLASS-6.1      27279220        ECLASS-7.0      27440103        ECLASS-8.0      27440103        ECLASS-9.0      27440103        ECLASS-9.0      27440103        ECLASS-10.1      27440103        ECLASS-11.1      27440103        ECLASS-12.0      27440103        ECLASS-12.0      27440103        ECLASS-12.0      27440103        ECLASS-12.0      27440103        ECLASS-12.0      27440103        ECLASS-12.0      27440103        ECMASS-12.0      27440103        ETIM-5.0      ECOMESTING        Packaging unit      1        Electrical data   Supply      30 V        Current operating voltage D	Degree of protection (EN IEC 60529)	IP20	
ECLASS-6.1      27279220        ECLASS-7.0      27440103        ECLASS-8.0      27440103        ECLASS-9.0      27440103        ECLASS-9.0      27440103        ECLASS-10.1      27440103        ECLASS-11.1      27440103        ECLASS-12.0      27440103        ECLASS-12.0      27440103        ETIM-5.0      EC002599        customs tariff number      85444290        GTIN      4048879714594        Packaging unit      1        Electrical data   Supply         Operating voltage DC max.      60 V        Operating voltage DC max.      60 V        Operating voltage DC max.      1.5 A        Industrial communication      1.5 A        Industrial communication      1.5 A        Industrial communication      100 MBit/s        Industrial communication   Ethernet functionality      100 MBit/s        Industrial communica	Commercial data		
ECLASS-7.0      27440103        ECLASS-8.0      27440103        ECLASS-9.0      27440103        ECLASS-9.0      27440103        ECLASS-10.1      27440103        ECLASS-11.1      27440103        ECLASS-12.0      27440103        ETIM-5.0      EC002599        customs tariff number      85444290        GTIN      4048879714594        Packaging unit      1        Etercial data   Supply         Operating voltage DC max.      60 V        Operating voltage DC max.      1.5 A        Industrial communication         Transfer parameters      CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)        Data transmission rate max.      100 MBit/s        Industrial communication   Ethernet functionality         duplex      Full duplex        Installation   Connection      M16 x 1.5        Family construction form      M12        Width across flats      SW19	ECLASS-6.0	27260702	
ECLASS-8.0      27440103        ECLASS-9.0      27440103        ECLASS-10.1      27440103        ECLASS-11.1      27440103        ECLASS-12.0      27440103        ECLASS-12.0      27440103        ECLASS-12.0      27440103        ECLASS-12.0      27440103        ECLASS-12.0      27440103        ECLASS-12.0      27440103        ECLASS-11.1      27440103        ECLASS-12.0      27440103        GIN      4048879714594        Packaging unit      1        Electrical data   Supply      Operating voltage DC max.        Operating voltage DC max.      60 V        Operating voltage DC max.      10 V        Current operating per contact max.      1,5 A        Industrial communication	ECLASS-6.1	27279220	
ECLASS-9.0      27440103        ECLASS-10.1      27440103        ECLASS-11.1      27440103        ECLASS-12.0      27440103        ECLASS-12.0      27440103        ETIM-5.0      EC002599        customs tariff number      85444290        GTIN      4048879714594        Packaging unit      1        Electrical data   Supply      0perating voltage DC max.        Operating voltage DC max.      60 V        Operating voltage DC max.      60 V        Operating voltage DC max.      1,5 A        Industrial communication      1,5 A        Industrial communication   Ethernet functionality      100 MBit/s        Installation   Connection      M16 x 1.5        Family construction form      M12        Width across flats      SW19	ECLASS-7.0	27440103	
ECLASS-10.1      27440103        ECLASS-11.1      27440103        ECLASS-12.0      27440103        ECLASS-12.0      27440103        ETIM-5.0      EC002599        customs tariff number      8544290        GTIN      4048879714594        Packaging unit      1        Electrical data   Supply      0perating voltage DC max.        Operating voltage DC max.      60 V        Operating voltage DC max.      00 V        Current operating per contact max.      1,5 A        Industrial communication      1        Transfer parameters      CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)        Data transmission rate max.      100 MBit/s        Industrial communication   Ethernet functionality        duplex      Full duplex        Installation   Connection        Mounting set      M16 x 1.5        Family construction form      M12        Width across flats      SW19	ECLASS-8.0	27440103	
ECLASS-11.1      27440103        ECLASS-12.0      27440103        ETIM-5.0      EC002599        customs tariff number      85444290        GTIN      4048879714594        Packaging unit      1        Electrical data   Supply      Operating voltage DC max.        Operating voltage DC max.      60 V        Operating voltage DC max.      00 V        Operating voltage DC max.      1,5 A        Industrial communication      1,5 A        Transfer parameters      CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)        Data transmission rate max.      100 MBit/s        Industrial communication   Ethernet functionality      400 duplex        full duplex      Full duplex        Industrial communication   Ethernet functionality      400 duplex        Installation   Connection      M16 x 1.5        Family construction form      M12        Widt across flats      SW19		27440103	
ECLASS-12.0      27440103        ETIM-5.0      EC002599        customs tariff number      85444290        GTIN      4048879714594        Packaging unit      1        Electrical data   Supply      0        Operating voltage DC max.      60 V        Operating voltage DC max.      60 V        Operating voltage DC max.      1,5 A        Industrial communication      1,5 A        Transfer parameters      CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)        Data transmission rate max.      100 MBit/s        Industrial communication   Ethernet functionality      400 laplex        Installation   Connection      M16 x 1.5        Family construction form      M12        Width across flats      SW19	ECLASS-10.1	27440103	
ETIM-5.0EC002599customs tariff number85444290GTIN4048879714594Packaging unit1Electrical data   SupplyOperating voltage DC max.60 VOperating voltage DC max. (UL-listed)30 VCurrent operating per contact max.1,5 AIndustrial communicationTransfer parametersCAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)Data transmission rate max.100 MBit/sIndustrial communication   Ethernet functionalityduplexFull duplexInstallation   ConnectionM16 x 1.5Family construction formM12Widt across flatsSW19		27440103	
customs tariff number85444290GTIN4048879714594Packaging unit1Electrical data   SupplyOperating voltage DC max.60 VOperating voltage DC max. (UL-listed)30 VCurrent operating per contact max.1,5 AIndustrial communicationTransfer parametersCAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)Data transmission rate max.100 MBit/sIndustrial communication   Ethernet functionalityduplexFull duplexInstallation   ConnectionMounting setM16 x 1.5Family construction formM12With across flatsSW19			
GTIN    4048879714594      Packaging unit    1      Electrical data   Supply    0      Operating voltage DC max.    60 V      Operating voltage DC max.    100 V      Operating voltage DC max.    1,5 A      Industrial communication    1,5 A      Industrial communication    CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)      Data transmission rate max.    100 MBit/s      Industrial communication   Ethernet functionality    4uplex      full duplex    Full duplex      Family construction form    M16 x 1.5      Family construction form    M12      With across flats    SW19			
Packaging unit    1      Electrical data   Supply      Operating voltage DC max.    60 V      Operating voltage DC max. (UL-listed)    30 V      Current operating per contact max.    1,5 A      Industrial communication    Transfer parameters      CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)      Data transmission rate max.    100 MBit/s      Industrial communication   Ethernet functionality      duplex    Full duplex      Faulton   Connection      Mounting set    M16 x 1.5      Family construction form    M12      With across flats    SW19			
Electrical data   Supply      Operating voltage DC max.    60 V      Operating voltage DC max. (UL-listed)    30 V      Current operating per contact max.    1,5 A      Industrial communication    Transfer parameters      CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)      Data transmission rate max.    100 MBit/s      Industrial communication   Ethernet functionality      duplex    Full duplex      Installation   Connection      Mounting set    M16 x 1.5      Family construction form    M12      Width across flats    SW19			
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Operating voltage DC max. (UL-listed)    30 V      Current operating per contact max.    1,5 A      Industrial communication       Transfer parameters    CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)      Data transmission rate max.    100 MBit/s      Industrial communication   Ethernet functionality       duplex    Full duplex      Installation   Connection    M16 x 1.5      Family construction form    M12      Width across flats    SW19	Electrical data   Supply		
Current operating per contact max.    1,5 A      Industrial communication      Transfer parameters    CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)      Data transmission rate max.    100 MBit/s      Industrial communication   Ethernet functionality    100 MBit/s      duplex    Full duplex      Installation   Connection    M16 x 1.5      Family construction form    M12      Width across flats    SW19			
Industrial communication      Transfer parameters    CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)      Data transmission rate max.    100 MBit/s      Industrial communication   Ethernet functionality    Image: Communication   Ethernet functionality      duplex    Full duplex      Installation   Connection    M16 x 1.5      Family construction form    M12      Width across flats    SW19			
Transfer parametersCAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)Data transmission rate max.100 MBit/sIndustrial communication   Ethernet functionalityduplexFull duplexInstallation   ConnectionMounting setM16 x 1.5Family construction formM12Width across flatsSW19	Current operating per contact max.	1,5 A	
Data transmission rate max.  100 MBit/s    Industrial communication   Ethernet functionality    duplex  Full duplex    Installation   Connection    Mounting set  M16 x 1.5    Family construction form  M12    Width across flats  SW19	Industrial communication		
Industrial communication   Ethernet functionality      duplex    Full duplex      Installation   Connection    M16 x 1.5      Family construction form    M12      Width across flats    SW19	Transfer parameters	CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)	
duplex  Full duplex    Installation   Connection  M16 x 1.5    Mounting set  M16 x 1.5    Family construction form  M12    Width across flats  SW19	Data transmission rate max.	100 MBit/s	
Installation   Connection      Mounting set    M16 x 1.5      Family construction form    M12      Width across flats    SW19	Industrial communication   Ethernet functionality		
Mounting set  M16 x 1.5    Family construction form  M12    Width across flats  SW19	duplex	Full duplex	
Family construction form  M12    Width across flats  SW19	Installation   Connection		
Family construction form  M12    Width across flats  SW19	· ·	M16 x 1 5	
Width across flats SW19			
Protection NEMA 3, 4, 6P		3 4 6P	
Pollution Degree 3			
Rated surge voltage  1 kV			
Material group (IEC 60664-1) I		1	
Mechanical data   Material data			
Coating locking nickel plated		nickel plated	
Locking material Brass			
Mechanical data   Mounting data	-		
		insected account	
Mounting method inserted, screwed	wounting method	inseriea, screwed	

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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)
Approvals	
UL 50E	yes
Installation   Cable	•
·	796
Cable identification Jacket Color	
Type of Certificate	green cURus
Amount stranding	1
Stranding	4 wires around Core filler twisted
Cable shielding (type)	copper braid, tinned
Cable shielding (coverage)	85 %
Banding	Fleece. Foil
Filler	yes
wire arrangement	white, yellow, blue, orange
Cable weigth	69,3 g/m
Material jacket	PUR
Shore hardness jacket	89 Shore A
Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Outer-diameter (jacket)	6,7 mm
Tolerance outer diameter (sheath)	±5%
Material inner jacket	FRNC
Color (inner jacket)	natur
Material wire insulation	PE
Amount wires	4
Outer diameter insulation	1.4 mm
Outer diameter tolerance core insulation	±5%
Shore hardness wire insulation	65 Shore D
Ingredient freeness wire insulation	lead-free, CFC-free, halogen-free
Amount strands (wire)	7
Diameter of single wires	22 AWG
Conductor crosssection (wire)	22 AWG
Material conductor wire	Stranded copper wire, bare
Traversing distance (C-track)	5 m @ 25 °C
Travel speed (C-track)	3 Mio. @ 25 °C
Travel speed (C-track)	3,3 m/s @ 25 °C
Nominal voltage AC max.	300 V
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	4,8 A
Characteristic impedance	100 Ω ± 15 % @ 100 MHz
Electrical resistance line constant wire	55 Ω/km @ 20 °C
AC withstand voltage (wire - wire)	2 kV @ 60 s
Electrical capacity line constant (wire - wire)	50000 pF/km
Power frequency withstand voltage (wire - jacket)	2 kV @ 60 s

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AC withstand voltage (wire - shield)	2 kV @ 60 s
Loop resistance	5000 MΩ × km
Min. operating temperature (static)	-40 °C
Max. operating temperature (fixed)	80 °C
Operating temperature min. (dynamic)	-30 °C
Operating temperature max. (dynamic)	70 °C
Flame resistance	IEC 60332-2-2   UL 1581 § 1090   UL 1581 § 1100 FT2
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)	12 x Outer diameter
No. of torsion cycles	1 Mio. 25 °C
Torsion stress	± 180 °/m

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