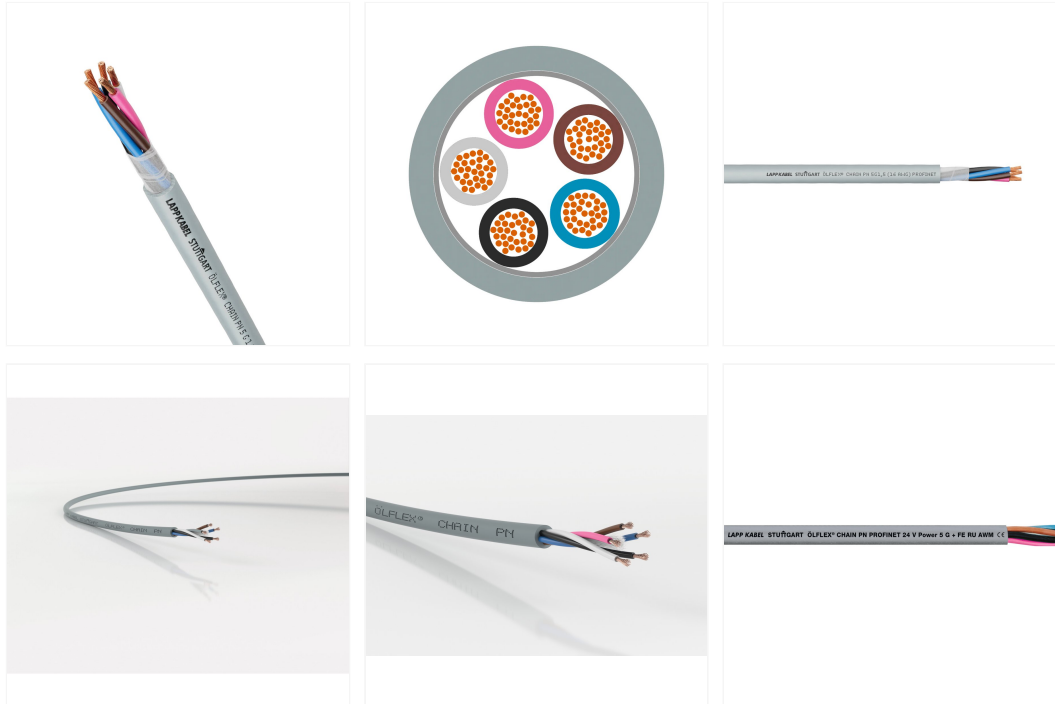


ÖLFLEX® CHAIN PN 5G1,5

Article No.: 1026794

Power and control cable; 5G1.5; Basic-Line; U_0/U : 300/300 V; PVC; Core identification: Colors; UL recognized; Cable chain



Details

Benefits

- Durable cable chain use with moderate travel distances or acceleration (LAPP performance class “Basic Line”).
- Proven cable successfully tested for over 2 million bending cycles in cable chains.
- UL/CSA certification according to technical data enables the product to be used on the North American market.
- Operating voltage of 1000 V according to UL, permitted for North America.
- Product with multiple certifications enables universal use and reduces the variety of parts, thus guaranteeing logistics savings.

Application

- For flexible use in the PROFINET network.
- The cable design enables flexible, moderate continuously flexing use in moving machine parts and cable chains, with horizontal travel distances of up to 10 m (32.81 ft).
- Also suitable for torsion applications in wind turbines.
- Can be used in dry, damp or wet interiors.
- Suitable for light to medium mechanical stress.
- The heat-resistant PVC outer jacket is highly resistant to acids and alkaline solutions.

Notes

Photographs and graphics are not to scale and do not represent detailed images of the respective products.

If applicable, the prices are solid metal prices without additional charges and VAT. Sales only to business customers.

Unless specified otherwise, the product values shown are rated values at room temperature. You can receive additional values, such as tolerances, upon request if they are available and have been released for publication.

The absence of PWIS raw materials does not protect against the potential risk of contamination with substances that interfere with the paint wetting during subsequent handling of the product(s) during transport, storage or further processing after delivery.

PROFINET® is a registered trademark of PNO (PROFIBUS user organization).

Remarks

When used in cable chains: please follow the T3 technical assembly guidelines

Technical Data

General information

Brand	ÖLFLEX®
Product type	Power and control cable
Copper index	483.82 lb/10000 ft
Performance class	Basic-Line
Industry segment	Assembly Machines

Electrical parameters

Nominal voltage	U_0/U : 300/300 V AC rms according to IEC
Rated voltage	1000 V AC rms according to cRU AWM 1000 V AC rms according to UL AWM
test voltage	1.5 kV
Current rating according to	VDE 0298-4

Product design

Cable dimension	5G1.5
Nominal cross section conductor (mm ²)	1.5 mm ²
Nominal cross section conductor (AWG)	16 AWG
Leading conductor cross-section	mm ²
Conductor material	Bare Copper
Conductor design	IEC 60228 class 5: fine-wire
Including protective ground	No
Number of cores	5
Stranding type	Layered Stranding
Wrapping above stranding	Fleece Wrapping
Shielded	No
Nominal outer diameter	0.335 in
Cable form	Round
With functional earth	Yes
Core insulation base material	Polyvinylchloride
Conductor insulation basic material, short form	PVC
Basic material of outer jacket	Polyvinylchloride
Base material of outer sheath, shortname	PVC
Outer jacket color	gray
Colour outer sheath RAL code	RAL 7001
Core identification	Colors

Product features

Application area	Cable chain Flexible
For permanent bending	Yes
For torsional load	No
Minimum bending radius, stationary	4 x outer diameter
Minimum bending radius in inch, fixed installation	1.339 in
Minimum bending radius, dynamic continuously flexing	10 x outer diameter
Minimum bending radius in inch, dynamic continuously flexing	3.346 in
Minimum bending radius, occasionally moved	10 x outer diameter
Minimum bending radius in mm, occasionally moved	3.346 in
Maximum bending cycles	2,000,000
Maximum travel distance	32.808 ft
Temperature, fixed installation	to 90 °C max. conductor temperature according to CSA AWM to 90 °C max. conductor temperature according to UL AWM -40 °C to 90 °C max. conductor temperature according to IEC
Temperature, occasionally moved	0 °C to 90 °C max. conductor temperature
temperature, dynamic permanently moved	0 °C to 90 °C max. conductor temperature
Flame-retardant	Yes
Flame retardance according to	IEC 60332-1-2 CSA FT1 UL Cable Flame Test UL VW-1
UV-resistant	No
Halogenfree	No
Oil resistant	Yes
Oil resistance according to	EN 50290-2-22: TM 54
PWIS-free	Yes

PWIS-free according to	VDMA 24364-B2-L
Low-adhesive jacket surface	Yes
Certifications and standards	
CE marking	Yes
EAC certified	Yes
EAC certification number	EAЭC N RU Д-DE.АЮ64.В.00130/20
UL recognized	Yes
UL AWM certification	20886 according to UL 758 (e-file number: E63634) 11008 according to UL 758 (e-file number: E63634)
UL listed	No
cUR recognized	Yes
cUR certification	AWM II B according to CSA C22.2 No. 210 (e-file number: E63634) AWM II A according to CSA C22.2 No. 210 (e-file number: E63634)
cUL listed	No
CSA certified	No
Resistance to flame propagation tested according to UN/ECE-R118	No

ÖLFLEX® CHAIN PN

Article No.	Name	Number of cores	Including protective ground	Nominal cross section conductor (mm ²)	Nominal outer diameter	Copper index
1026791	ÖLFLEX® CHAIN PN 4X0,75	4	No	0.75 mm ²	0.256 in	194.87 lb/10000 ft
1026792	ÖLFLEX® CHAIN PN 5G0,75	5	No	0.75 mm ²	0.28 in	248.63 lb/10000 ft
1026793	ÖLFLEX® CHAIN PN 4X1,5	4	No	1.5 mm ²	0.299 in	389.74 lb/10000 ft
1026794	ÖLFLEX® CHAIN PN 5G1,5	5	No	1.5 mm ²	0.335 in	483.82 lb/10000 ft

V1.1