

readycable® feedback cable suitable for Lenze

EYF0021AxxxxF07S03, basic cable TPE 7.5xd

MAT9941111



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- Requirements: For extremely heavy duty applications
- Outer jacket: TPE
- Oil resistance: Oil-resistant according to DIN EN 60811-404, resistant to organic oils according to VDMA 24568 with Plantocut 8 S-MB by DEA
- Halogen-free
- Silicone-free
- Hydrolysis and microbe-resistant
- PVC-free
- CFRIP®
- chainflex® class: 6.6.4.1

Product description

Introducing the readycable® feedback cable, designed for Lenze EYF0021AxxxxF07S03. This robust cable features a durable TPE outer jacket, making it perfect for extremely heavy-duty applications. It boasts exceptional oil resistance, including bio-oils, and is suitable for both indoor and outdoor use (excluding direct sunlight). With hydrolysis and microbe resistance, this halogen-free and silicone-free cable is ideal for storage and retrieval units, machining tools, and low-temperature environments.

Manufacturer attributes

Manufacturer Part No	EYF0021AxxxxF07S03
Cable type	Basic cable

Connectors

Connector A	round plug, socket
Connector B	SUB-D, pin



General properties

Number of cores and conductor nominal cross-section	3x(2x0.14)C+(4x0.14)C+2x(2x0.5)C
Outer diameter (d) max. mm	11 mm
Weight per km	119 kg/km
Copper index kg/km	71 kg/km

Electricity attributes

 Nominal voltage	50V
 Test voltage	1500V (according to DIN EN 50395)

Cable structure

 Conductor	Stranded conductor in an especially flexible design consisting of tinned copper wires (according to DIN EN 60228).
 Core insulation	Mechanically high-quality TPE compound.
 Core stranding	According to measuring system specification
 Conductor colours	according to measuring system specification
Core group 1 core structure	3x(2x0.14)C
Core group 1 colour code	violet/black,blue/black,green/black
Core group 2 core structure	(4x0.14)C
 Element shield	Extremely flexible braiding made of tinned copper wires. Coverage linear approx. 70%, optical approx. 90%
Element jacket	TPE mixture on pair shielding adapted to suit the requirements in e-chains®.
Inner jacket	TPE mixture adapted to suit the requirements in e-chains®.
 Overall shield	Extremely flexible braiding made of tinned copper wires. Coverage linear approx. 70%, optical approx. 90%
 Outer jacket	Low-adhesion, extremely abrasion-resistant and highly flexible TPE mixture, adapted to suit the requirements in e-chains®.
 Outer jacket colour	Yellow-green (comparable to RAL 6018)
CFRIP®	Strip cables faster: a tear strip is moulded into the outer jacket



Properties and approvals

	UV resistance	Medium
	Oil resistance	Oil-resistant (according to DIN EN 60811-404), bio-oil-resistant (according to VDMA 24568 with Plantocut 8 S-MB tested by DEA), Class 4
	Silicone-free	Free from silicone which can affect paint adhesion (according to PV 3.10.7 – status 1992)
	Halogen-free	According to DIN EN 60754
	UL verified	certificate-No. B129699: "igus 36-month chainflex cable guarantee and service life calculator based on 2 billion test cycles per year"
	UL/CSA AWM	Style 10467 and 22355, 300 V, 80 °C
	REACH	In accordance with Regulation (EC) No. 1907/2006 (REACH)
	Lead-free	According to 2011/65/EU (RoHS-II/RoHS-III)
	Cleanroom	According to ISO Class 1. The outer jacket material of this series complies with CF9.15.07 - tested by IPA according to standard DIN EN ISO 14644-1
	DESINA	According to VDW, DESINA standardisation
	CE	According to 2014/35/EU



Dynamic properties

	Min. bend radius, e-chain (factor)	6.8 x d
	Min. bend radius, e-chain	74.8 mm
	Min. bend radius, flexible (factor)	5 x d
	Min. bend radius, fixed (factor)	4 x d
	Temperature e-chain®	-35°C up to +90°C
	Temperature, flexible	-50°C to +90°C (according to DIN EN 60811-504)
	Temperature, fixed	-55°C to +90°C (according to DIN EN 50305)
	v max. unsupported (speed)	10 m/s
	v max. gliding (speed)	6 m/s
	a max. (acceleration)	100 m/s ²
	travel length	Class 6
	torsion	No torsion



chainflex ®Lifetime

Guaranteed lifetime according to guarantee conditions
More Information: [\[Link id="13"\]](#)

Double strokes*					5 million	7.5 million	12.5 million
Temperature,	v max. [m/s]		a max.	Travel distance	R min. [factor x d]	R min. [factor x d]	R min. [factor x d]
from/to [°C]	unsupported	gliding	[m/s²]	[m]			
-35 / -25					10	11	12
-25 / +80	10	6	100	≤ 400	7.5	8.5	9.5
+80 / +90					10	11	12

* Higher number of double strokes possible - please ask for your individual calculation.

Certificates and standards

