CETHERM
PUR
12.5 x d

Thermocouple cable | PUR | chainflex® CFTHERMO

- For high mechanical load requirements Notch-resistant
- PUR outer jacket
- Oil-resistant and coolant-resistant
- PVC and halogen-free

Dynamic Information

Dynar	nic information							
	Bend radius	E-Chain [®] linear	min. 12.5 x d					
		flexible	min. 10 x d					
		fixed	min. 5 x d					
°	Temperature	E-Chain [®] linear	-13 °F to +176 °F (-25 °C to +80 °C)					
(flexible	-40 °F to +176 °F (-40 °C to +80 °C)					
		fixed	-58 °F to +176 °F (-50 °C to +80 °C)					
V	v max.	unsupported	6.56 ft/s (2 m/s)					
$(\ \)$		gliding	3.28 ft/s (1 m/s)					
a	a max.	65.6 ft/s² (20 m/s²)						
E	Travel distance	Unsupported trave	el distances and for gliding applications up to 164.1 ft (50 m),					
		Class 4						
Cable	structure							
6	Conductor	uctor Conductor consisting of a flexible special alloy.						
19		See P/N Table	► See P/N Table					
6	Conductor	Mechanically high-quality TPE mixture.						
190	insulation							
	Conductor	Conductors are cabled in layers with short pitch lengths.						
19	construction							
1 An	Color code	According to thermo specification.						
199		► See P/N Table						
R	Intermediate layer	Fleece taping over the external layer.						
	Overall shield	Extremely bending	g-resistant tinned copper braid.					
((Q)		90 % optical coverage						
	Outer jacket	Low-adhesion, hal	ogen-free, highly abrasion-resistant mixture on the basis of PUR,					
(2		adapted to suit the	e requirements in E-Chains® (following DIN EN 50363-10-2).					
		Color: According to thermo specification ► See P/N Table						
Electr	ical Information							

300/300 V (following DIN VDE 0298-3)

Nominal voltage

e Fxar

Test voltage 1500 V

- Hydrolysis and microbe-resistant

Prope

Class 5.4.3.1

Basic requirements Travel distance Oil resistance Torsion

Properties and approvals	
UV resistance	Medium
Oil resistance	Oil-resistant (following DI
Silicone-free	Free from silicone which 1992)
Halogen-free	Following DIN EN 60754
UL verified	Certificate No. B129699 life calculator based on 2
	Certificate No. RU C-DE
REACH REACH	In accordance with regul
Rous Lead-free	Following 2011/65/EC (F
Clean- Room	According to ISO Class CF77.UL.05.12.D - teste
CECE	Following 2014/35/EU

Typical application areas

- For high mechanical load requirements, Class 5
- Unsupported travel distances and for gliding applications up to 164 ft (50 m), Class 4
- Almost unlimited resistance to oil, Class 3
- Indoor and outdoor applications with average sun radiation
- Machining units/machine tools, Storage and retrieval units for high-bay warehouses, Packaging industry, quick handling, refrigerating sector

Part No.	AWG	Number of Conductors and rated cross section	Outer diameter max.		Copper index		Weight	
		[mm ²]	[in.]	[mm]	[lbs/mft]	[kg/km]	[lbs/mft]	[kg/km]
CFTHERMO-J-001 *	24	1 PR x 0.23	0.22	5.5	6.0	9	24.2	36
CFTHERMO-K-001	24	1 PR x 0.23	0.22	5.5	6.0	9	24.9	37
CFTHERMO-K-002	24	1 STP x 0.23	0.30	7.5	16.1	24	45.0	67
	20	3 x 0.5						

^{*} The cross-section of the copper conductor is equivalent to the electrically effective cross-section. **Note:** The given outer diameters are maximum values. G = with green-yellow earth core x = without earth core

Part No.	Jackt color	Thermo materials	Core group	Color code
CFTHERMO-J-001	black	Fe-CuNi	(2x0.23)C	+ black, - white
CFTHERMO-K-001	green	NiCr-Ni	(2x0.23)C	+ green, - white
CFTHERMO-K-002	green	NiCr-Ni	(2x0.23)C	+ green, - white
		Cu	3G0.5	brown, blue, yellow-green

36 month guarantee ... 1,354 types from stock ... no cutting charges

Igus



low	1			5			highest
unsupported			4			≥ 1	312 ft
none		3		highest			
none	1			±3(

CFTHERMO PUR 12.5 x d

DIN EN 50363-10-2), Class 3

can affect paint adhesion (following PV 3.10.7 – status

54

9: igus 36-month chainflex cable guarantee and service 2 billion test cycles per year E.ME77.B.00300/19 (TR ZU)

ulation (EC) No. 1907/2006 (REACH)

(RoHS-II/RoHS-III)

1. The outer jacket material of this series complies with ted by IPA according to standard DIN EN ISO 14644-1

