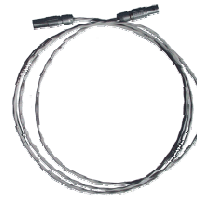


Extension cable

- Selector guide
- Standard length of 4m
- Other lengths on demand
- Other thermocouple type on demand



PRODUCT SELECTOR

Length	4m	040
	6m	060
	10m	100

Product reference

1. []

Connector	Free wire		A	Fine heat flux	Cable type
	Ferrules		B	Standard heat flux	
	LEMO 2p straight plug	C	C	Type T	
	LEMO 2p fixed socket ¹		D	Type K	
	LEMO 3p straight plug	E	E	Standard sensor	
	LEMO 3p fixed socket		F	Single wire	
	LEMO 7p straight plug	G	G	Type J	
	LEMO 7p fixed socket ¹		H	Double type J	
	Miniature male ¹		J	6x Type T	
	Miniature female ¹		K	Type K	
	Standard male ¹		L		
	Standard female ¹		M		
	Standard double male ¹		N		
	Standard double female ¹		O		
	Porcelain terminal 4p ¹		P		
	Porcelain terminal 6p ¹		Q		
	Connectors assembly	2 M		U	
C+E+2B ²		W		Y Flat sensor	
E+2B ²		X		Z HT Flat sensor	
C+E ²		Y			
2 L			Z		

¹ On demand
² Depend of module

CONNECTOR

A	B	CEG	DFH	JK	LM
NO	P	Q	W	X	Y

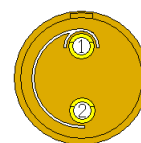
Technical data in product note n°TFX-002-B-en

PIN CONFIGURATION

Technical data in product note n°TFX-002-B-en

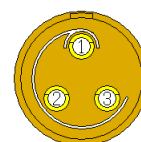
Heat flux connector (C+D)

Pin	Symbol	Parameter	Colour
1	HF+	Positive heat flux input	Red
2	HF-	Negative heat flux input	Green
Screen		Earth	
Insulation			White



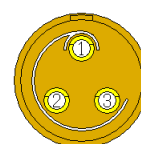
Thermocouple connector (E+F)

Pin	Symbol	Parameter	Colour Type K	Colour Type T
2	TC+	Positive thermocouple input	Green	Brown
3	TC-	Negative thermocouple input	White	White
Insulation			Green	-



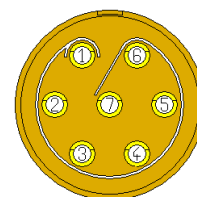
Sensor connector (E+F)

Pin	Symbol	Parameter	Colour
1	HF-	Negative heat flux input	Red
2	Common+	Common positive input	Brown
3	TC-	Negative thermocouple input	White
Screen		Earth	
Insulation			White



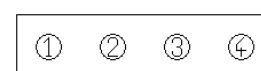
Active sensor connector (G+H)

Pin	Symbol	Parameter	Colour
1	CMD	NPN comrad, to 0V	violet
2	HF+	Positive heat flux input	Brown
3	TC+	Positive thermocouple input	
4	TC-	Negative thermocouple input	White
5	HF-	Negative heat flux input	Red
6	24V	Positive supply	Red
7	0V	Negative supply	Noir
Screen		Earth	
Insulation			White



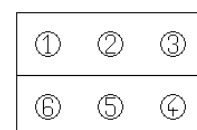
Porcelain terminal 4 pins (P)

Pin	Symbol	Parameter	Colour
1	Common+	Common positive input	Brown
2	Shield	Earth	
3	TC-	Negative thermocouple input	White
4	HF-	Negative heat flux input	Red



Porcelain terminal 6 pins (Q)

Pin	Symbol	Parameter	Colour
1	Common+	Common positive input	Brown
2	Shield	Earth	
3	H+	Positive heat	Red
4	H-	Negative heat	Violet
5	TC-	Negative thermocouple input	White
6	HF-	Negative heat flux input	Red



CABLE CHARACTERISTICS

Type	Description	Insulator	Temperature range	Signals	Shield
A	Fine heat flux	PTFE	-75°C to +250°C	2 Cu	Yes
B	Standard heat flux	ETFE-X	-65°C to +150°C	2 Cu	Yes
C	Type T	PFA	-75°C to +250°C	1 Cu 1 Cn	No
D	Type K	Silicone	-40°C to +180°C	1 K+ 1 K-	No
E	Standard sensor	PFA	-55°C to +250°C	2 Cu 1 Cn	Yes
F	Single wire	PTFE	-60°C to +200°C	1 Cu	No
G	Type J	Silicone	-40°C to +180°C	1 K+ 1 K-	No
H	Double type J	TBD			
J	6x Type T (Active)	PTFE	-75°C to +250°C	6x (1 Cu + 1 Cn)	Yes
K	Type K	PFA	-75°C to +250°C	1 K+ 1 K-	No

A. Fine heat flux

Insulation PTFE
 Temperature range -75°C to +250°C
 Construction 2 x 0.034mm², twisted, shielded
 Outside diameter max 1.6mm

B. Standard heat flux

Type MIL-W-22759/32
 Insulation ETFE-X
 Temperature range -65°C to +150°C
 Construction 2 x 0.25mm², twisted, shielded
 Outside diameter max 3.0mm

C. Type T

Type C-500-PFA
 Insulation PFA
 Temperature range -75°C to +250°C
 Construction 2 x 0.22mm², twisted
 Outside diameter max 2.0mm
 Tolerance IEC 584.3 Class 2

D. Type K

Insulation Silicone
 Temperature range -40°C to +180°C
 Construction 2 x 0.24mm²
 Outside diameter 4.2mm
 Tolerance IEC 584.3 Class 2

E. Standard sensor

Type 178.40.06b
 Insulation PFA
 Temperature range -55°C to +250°C
 Construction 3 x 0.088mm², twisted, shielded
 Outside diameter max 3.0mm
 Tolerance IEC 584.3 Class 2

F. Single wire

Type TFE UL1213
 Insulation PTFE
 Temperature range -60°C to +200°C
 Construction 1 x AWG24 (0.25mm²)
 Outside diameter 1.14mm
 Standard UL AWM Style 1213 et MIL-W-16878E Type E

G. Type J

Insulation Silicone
 Temperature range -40°C to +180°C
 Construction 2 x 0.24mm²
 Outside diameter 4.2mm
 Tolerance IEC 584.3 Class 2

H. Double type J

TDB

J. 6x Type T

Insulation PTFE
 Temperature range -75°C to +250°C
 Construction 6x (2 x 0.22mm², twisted), shielded
 Outside diameter 5.5mm
 Tolerance IEC 584.3 Class 2

K. Type K

Type C-500-PFA
 Insulation PFA
 Temperature range -75°C to +250°C
 Construction 2 x 0.22mm², twisted
 Outside diameter max 2.0mm
 Tolerance IEC 584.3 Class 2

CABLE ASSEMBLIES

Cable type	Description	Assembly	Temperature	Equiv.
W	Active sensor	1 E + 2 F (red + violet)	-55°C to + 200°C	J
Y	Flat sensor	1 B + 1 C	-65°C to +150°C	
Z	HT Flat sensor	1 A + 1 C	-75°C to +250°C	E

TFX SA reserves the right to change the circuitry and specifications without notice at any time.