



MECHANICALLY PROTECTED HIGH-TEMPERATURE THERMOCOUPLE CABLE

IEC 60584-3 / ANSI MC96.1

12 orderable sizes

STANDARD IEC 60584-3 / ANSI MC96.1	VOLTAGE CLASS Instrumentation signal circuit	TEMPERATURE CLASS Up to +400 °C route guide
CONDUCTOR 1/0.3 mm solid / 28 AWG, 7/0.2 mm stranded / 24 AWG	INSULATION / JACKET Stainless steel overbraid over glass fiber jacket	

Construction

- 1 ■ **Conductor (per core)** – Positive NiCr / negative NiAl · 1 × Ø0.3 mm
- 2 ■ **Pair insulation** – Glass fiber insulated conductors with glass fiber inner jacket · Wall Glass fiber insulated conductors with glass fiber inner jacket mm
- 3 ■ **Filler** – Bedding / filler
- 4 ■ **Overall screen (OS)** – Al/polyester foil + drain
- 5 ■ **Sheath** – Stainless steel overbraid over glass fiber jacket

Size selection – all available cross-sections

Cable reference	Thermocouple type	Cable grade	Pair layout	Conductor construction	Alloy combination	Insulation / sheath	Screen / protection	Temperature range	Tolerance class	OD guide
Glass fiber stainless steel overbraid thermocouple cable KX 1 pair 1/0.3 mm solid / 28 AWG	KX	Extension grade	1 pair	1/0.3 mm solid / 28 AWG	Positive NiCr / negative NiAl	Glass fiber insulated conductors with glass fiber inner jacket	Stainless steel overbraid mechanical protection	Up to +400 °C route guide	IEC 60584-3 Class 1 / Class 2 option	8.8 mm
Glass fiber stainless steel overbraid thermocouple cable KX 1 pair 7/0.2 mm stranded / 24 AWG	KX	Extension grade	1 pair	7/0.2 mm stranded / 24 AWG	Positive NiCr / negative NiAl	Glass fiber insulated conductors with glass fiber inner jacket	Stainless steel overbraid mechanical protection	Up to +400 °C route guide	IEC 60584-3 Class 1 / Class 2 option	9.2 mm
Glass fiber stainless steel overbraid thermocouple cable KX 2 pair 1/0.3 mm solid / 28 AWG	KX	Extension grade	2 pair	1/0.3 mm solid / 28 AWG	Positive NiCr / negative NiAl	Glass fiber insulated conductors with glass fiber inner jacket	Stainless steel overbraid mechanical protection	Up to +400 °C route guide	IEC 60584-3 Class 1 / Class 2 option	9.9 mm
Glass fiber stainless steel overbraid thermocouple cable KX 2 pair 7/0.2 mm stranded / 24 AWG	KX	Extension grade	2 pair	7/0.2 mm stranded / 24 AWG	Positive NiCr / negative NiAl	Glass fiber insulated conductors with glass fiber inner jacket	Stainless steel overbraid mechanical protection	Up to +400 °C route guide	IEC 60584-3 Class 1 / Class 2 option	10.3 mm
Glass fiber stainless steel overbraid thermocouple cable JX	JX	Extension grade	1 pair	1/0.3 mm solid / 28 AWG	Positive iron /	Glass fiber insulated	Stainless steel overbraid	Up to +400 °C route guide	IEC 60584-3 Class 1 /	8.8 mm

Cable reference	Thermocouple type	Cable grade	Pair layout	Conductor construction	Alloy combination	Insulation / sheath	Screen / protection	Temperature range	Tolerance class	OD guide
1 pair 1/0.3 mm solid / 28 AWG					negative constantan	conductors with glass fiber inner jacket	mechanical protection		Class 2 option	
Glass fiber stainless steel overbraid thermocouple cable JX 1 pair 7/0.2 mm stranded / 24 AWG	JX	Extension grade	1 pair	7/0.2 mm stranded / 24 AWG	Positive iron / negative constantan	Glass fiber insulated conductors with glass fiber inner jacket	Stainless steel overbraid mechanical protection	Up to +400 °C route guide	IEC 60584-3 Class 1 / Class 2 option	9.2 mm
Glass fiber stainless steel overbraid thermocouple cable JX 2 pair 1/0.3 mm solid / 28 AWG	JX	Extension grade	2 pair	1/0.3 mm solid / 28 AWG	Positive iron / negative constantan	Glass fiber insulated conductors with glass fiber inner jacket	Stainless steel overbraid mechanical protection	Up to +400 °C route guide	IEC 60584-3 Class 1 / Class 2 option	9.9 mm
Glass fiber stainless steel overbraid thermocouple cable JX 2 pair 7/0.2 mm stranded / 24 AWG	JX	Extension grade	2 pair	7/0.2 mm stranded / 24 AWG	Positive iron / negative constantan	Glass fiber insulated conductors with glass fiber inner jacket	Stainless steel overbraid mechanical protection	Up to +400 °C route guide	IEC 60584-3 Class 1 / Class 2 option	10.3 mm
Glass fiber stainless steel overbraid thermocouple cable TX 1 pair 1/0.3 mm solid / 28 AWG	TX	Extension grade	1 pair	1/0.3 mm solid / 28 AWG	Positive copper / negative constantan	Glass fiber insulated conductors with glass fiber inner jacket	Stainless steel overbraid mechanical protection	Up to +400 °C route guide	IEC 60584-3 Class 1 / Class 2 option	8.8 mm
Glass fiber stainless steel overbraid thermocouple cable TX 1 pair 7/0.2 mm stranded / 24 AWG	TX	Extension grade	1 pair	7/0.2 mm stranded / 24 AWG	Positive copper / negative constantan	Glass fiber insulated conductors with glass fiber inner jacket	Stainless steel overbraid mechanical protection	Up to +400 °C route guide	IEC 60584-3 Class 1 / Class 2 option	9.2 mm
Glass fiber stainless steel overbraid thermocouple cable TX 2 pair 1/0.3 mm solid / 28 AWG	TX	Extension grade	2 pair	1/0.3 mm solid / 28 AWG	Positive copper / negative constantan	Glass fiber insulated conductors with glass fiber inner jacket	Stainless steel overbraid mechanical protection	Up to +400 °C route guide	IEC 60584-3 Class 1 / Class 2 option	9.9 mm
Glass fiber stainless steel overbraid thermocouple cable TX 2 pair 7/0.2 mm stranded / 24 AWG	TX	Extension grade	2 pair	7/0.2 mm stranded / 24 AWG	Positive copper / negative constantan	Glass fiber insulated conductors with glass fiber inner jacket	Stainless steel overbraid mechanical protection	Up to +400 °C route guide	IEC 60584-3 Class 1 / Class 2 option	10.3 mm