



MULTIPAIR SCREENED THERMOCOUPLE CABLE

IEC 60584-3 / IEC 60332-1-2

30 orderable sizes

STANDARD IEC 60584-3 / IEC 60332-1-2	VOLTAGE CLASS 250 V instrumentation circuit	TEMPERATURE CLASS -20 °C to +70 °C cable route
CONDUCTOR 1/0.5 mm solid / 24 AWG, 7/0.2 mm stranded / 24 AWG	INSULATION / JACKET PVC or LSZH outer sheath	

Construction

- 1 ■ Conductor (per core) – Positive NiCr / negative NiAl · 7 × Ø0.2 mm
- 2 ■ Pair insulation – PVC or LSZH thermocouple pair insulation · Wall PVC or LSZH thermocouple pair insulation mm
- 3 ■ Individual screen (IS) – Al/polyester foil + tinned-copper drain
- 4 ■ Filler – Bedding / filler
- 5 ■ Overall screen (OS) – Al/polyester foil + drain
- 6 ■ Sheath – PVC or LSZH outer sheath

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
Multipair screened thermocouple instrumentation cable KX 2 pair 1/0.5 mm solid / 24 AWG	KX	Extension grade	2 pair	1/0.5 mm solid / 24 AWG	Positive NiCr / negative NiAl	PVC or LSZH thermocouple pair insulation	Individual pair screen plus overall tape screen with drain wire	-20 °C to +70 °C cable route	IEC 60584-3 Class 1 / Class 2 option	9.3 mm
Multipair screened thermocouple instrumentation 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	PVC or LSZH thermocouple pair insulation	Individual pair screen plus overall tape screen with drain wire	-20 °C to +70 °C cable route	IEC 60584-3 Class 1 / Class 2 option	9.5 mm
Multipair screened thermocouple instrumentation cable KX 4 pair 1/0.5 mm solid / 24 AWG	KX	Extension grade	4 pair	1/0.5 mm solid / 24 AWG	Positive NiCr / negative NiAl	PVC or LSZH thermocouple pair insulation	Individual pair screen plus overall tape screen with drain wire	-20 °C to +70 °C cable route	IEC 60584-3 Class 1 / Class 2 option	10.8 mm
Multipair screened thermocouple instrumentation cable KX 4 pair 7/0.2 mm stranded / 24 AWG	KX	Extension grade	4 pair	7/0.2 mm stranded / 24 AWG	Positive NiCr / negative NiAl	PVC or LSZH thermocouple pair insulation	Individual pair screen plus overall tape screen with drain wire	-20 °C to +70 °C cable route	IEC 60584-3 Class 1 / Class 2 option	11.0 mm

Cable reference	Thermocouple type	Cable grade	Pair layout	Conductor construction	Alloy combination	Insulation / sheath	Screen / protection	Temperature range	Tolerance class	OD guide
Multipair screened thermocouple instrumentation cable KX 8 pair 1/0.5 mm solid / 24 AWG	KX	Extension grade	8 pair	1/0.5 mm solid / 24 AWG	Positive NiCr / negative NiAl	PVC or LSZH thermocouple pair insulation	Individual pair screen plus overall tape screen with drain wire	-20 °C to +70 °C cable route	IEC 60584-3 Class 1 / Class 2 option	13.0 mm
Multipair screened thermocouple instrumentation cable KX 8 pair 7/0.2 mm stranded / 24 AWG	KX	Extension grade	8 pair	7/0.2 mm stranded / 24 AWG	Positive NiCr / negative NiAl	PVC or LSZH thermocouple pair insulation	Individual pair screen plus overall tape screen with drain wire	-20 °C to +70 °C cable route	IEC 60584-3 Class 1 / Class 2 option	13.1 mm
Multipair screened thermocouple instrumentation cable KX 12 pair 1/0.5 mm solid / 24 AWG	KX	Extension grade	12 pair	1/0.5 mm solid / 24 AWG	Positive NiCr / negative NiAl	PVC or LSZH thermocouple pair insulation	Individual pair screen plus overall tape screen with drain wire	-20 °C to +70 °C cable route	IEC 60584-3 Class 1 / Class 2 option	14.7 mm
Multipair screened thermocouple instrumentation cable KX 12 pair 7/0.2 mm stranded / 24 AWG	KX	Extension grade	12 pair	7/0.2 mm stranded / 24 AWG	Positive NiCr / negative NiAl	PVC or LSZH thermocouple pair insulation	Individual pair screen plus overall tape screen with drain wire	-20 °C to +70 °C cable route	IEC 60584-3 Class 1 / Class 2 option	14.8 mm
Multipair screened thermocouple instrumentation cable KX 24 pair 1/0.5 mm solid / 24 AWG	KX	Extension grade	24 pair	1/0.5 mm solid / 24 AWG	Positive NiCr / negative NiAl	PVC or LSZH thermocouple pair insulation	Individual pair screen plus overall tape screen with drain wire	-20 °C to +70 °C cable route	IEC 60584-3 Class 1 / Class 2 option	18.4 mm
Multipair screened thermocouple instrumentation cable KX 24 pair 7/0.2 mm stranded / 24 AWG	KX	Extension grade	24 pair	7/0.2 mm stranded / 24 AWG	Positive NiCr / negative NiAl	PVC or LSZH thermocouple pair insulation	Individual pair screen plus overall tape screen with drain wire	-20 °C to +70 °C cable route	IEC 60584-3 Class 1 / Class 2 option	18.5 mm
Multipair screened thermocouple instrumentation cable JX 2 pair 1/0.5 mm solid / 24 AWG	JX	Extension grade	2 pair	1/0.5 mm solid / 24 AWG	Positive iron / negative constantan	PVC or LSZH thermocouple pair insulation	Individual pair screen plus overall tape screen with drain wire	-20 °C to +70 °C cable route	IEC 60584-3 Class 1 / Class 2 option	9.3 mm
Multipair screened thermocouple instrumentation 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	PVC or LSZH thermocouple pair insulation	Individual pair screen plus overall tape screen	-20 °C to +70 °C cable route	IEC 60584-3 Class 1 / Class 2 option	9.5 mm

Cable reference	Thermocouple type	Cable grade	Pair layout	Conductor construction	Alloy combination	Insulation / sheath	Screen / protection	Temperature range	Tolerance class	OD guide
							with drain wire			
Multipair screened thermocouple instrumentation cable JX 4 pair 1/0.5 mm solid / 24 AWG	JX	Extension grade	4 pair	1/0.5 mm solid / 24 AWG	Positive iron / negative constantan	PVC or LSZH thermocouple pair insulation	Individual pair screen plus overall tape screen with drain wire	-20 °C to +70 °C cable route	IEC 60584-3 Class 1 / Class 2 option	10.8 mm
Multipair screened thermocouple instrumentation cable JX 4 pair 7/0.2 mm stranded / 24 AWG	JX	Extension grade	4 pair	7/0.2 mm stranded / 24 AWG	Positive iron / negative constantan	PVC or LSZH thermocouple pair insulation	Individual pair screen plus overall tape screen with drain wire	-20 °C to +70 °C cable route	IEC 60584-3 Class 1 / Class 2 option	11.0 mm
Multipair screened thermocouple instrumentation cable JX 8 pair 1/0.5 mm solid / 24 AWG	JX	Extension grade	8 pair	1/0.5 mm solid / 24 AWG	Positive iron / negative constantan	PVC or LSZH thermocouple pair insulation	Individual pair screen plus overall tape screen with drain wire	-20 °C to +70 °C cable route	IEC 60584-3 Class 1 / Class 2 option	13.0 mm
Multipair screened thermocouple instrumentation cable JX 8 pair 7/0.2 mm stranded / 24 AWG	JX	Extension grade	8 pair	7/0.2 mm stranded / 24 AWG	Positive iron / negative constantan	PVC or LSZH thermocouple pair insulation	Individual pair screen plus overall tape screen with drain wire	-20 °C to +70 °C cable route	IEC 60584-3 Class 1 / Class 2 option	13.1 mm
Multipair screened thermocouple instrumentation cable JX 12 pair 1/0.5 mm solid / 24 AWG	JX	Extension grade	12 pair	1/0.5 mm solid / 24 AWG	Positive iron / negative constantan	PVC or LSZH thermocouple pair insulation	Individual pair screen plus overall tape screen with drain wire	-20 °C to +70 °C cable route	IEC 60584-3 Class 1 / Class 2 option	14.7 mm
Multipair screened thermocouple instrumentation cable JX 12 pair 7/0.2 mm stranded / 24 AWG	JX	Extension grade	12 pair	7/0.2 mm stranded / 24 AWG	Positive iron / negative constantan	PVC or LSZH thermocouple pair insulation	Individual pair screen plus overall tape screen with drain wire	-20 °C to +70 °C cable route	IEC 60584-3 Class 1 / Class 2 option	14.8 mm
Multipair screened thermocouple instrumentation cable JX 24 pair 1/0.5 mm solid / 24 AWG	JX	Extension grade	24 pair	1/0.5 mm solid / 24 AWG	Positive iron / negative constantan	PVC or LSZH thermocouple pair insulation	Individual pair screen plus overall tape screen with drain wire	-20 °C to +70 °C cable route	IEC 60584-3 Class 1 / Class 2 option	18.4 mm
Multipair screened thermocouple instrumentation cable JX 24 pair 7/0.2 mm stranded / 24 AWG	JX	Extension grade	24 pair	7/0.2 mm stranded / 24 AWG	Positive iron / negative constantan	PVC or LSZH thermocouple pair insulation	Individual pair screen plus overall	-20 °C to +70 °C cable route	IEC 60584-3 Class 1 / Class 2 option	18.5 mm

Cable reference	Thermocouple type	Cable grade	Pair layout	Conductor construction	Alloy combination	Insulation / sheath	Screen / protection	Temperature range	Tolerance class	OD guide
							tape screen with drain wire			
Multipair screened thermocouple instrumentation cable TX 2 pair 1/0.5 mm solid / 24 AWG	TX	Extension grade	2 pair	1/0.5 mm solid / 24 AWG	Positive copper / negative constantan	PVC or LSZH thermocouple pair insulation	Individual pair screen plus overall tape screen with drain wire	-20 °C to +70 °C cable route	IEC 60584-3 Class 1 / Class 2 option	9.3 mm
Multipair screened thermocouple instrumentation 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	PVC or LSZH thermocouple pair insulation	Individual pair screen plus overall tape screen with drain wire	-20 °C to +70 °C cable route	IEC 60584-3 Class 1 / Class 2 option	9.5 mm
Multipair screened thermocouple instrumentation cable TX 4 pair 1/0.5 mm solid / 24 AWG	TX	Extension grade	4 pair	1/0.5 mm solid / 24 AWG	Positive copper / negative constantan	PVC or LSZH thermocouple pair insulation	Individual pair screen plus overall tape screen with drain wire	-20 °C to +70 °C cable route	IEC 60584-3 Class 1 / Class 2 option	10.8 mm
Multipair screened thermocouple instrumentation cable TX 4 pair 7/0.2 mm stranded / 24 AWG	TX	Extension grade	4 pair	7/0.2 mm stranded / 24 AWG	Positive copper / negative constantan	PVC or LSZH thermocouple pair insulation	Individual pair screen plus overall tape screen with drain wire	-20 °C to +70 °C cable route	IEC 60584-3 Class 1 / Class 2 option	11.0 mm
Multipair screened thermocouple instrumentation cable TX 8 pair 1/0.5 mm solid / 24 AWG	TX	Extension grade	8 pair	1/0.5 mm solid / 24 AWG	Positive copper / negative constantan	PVC or LSZH thermocouple pair insulation	Individual pair screen plus overall tape screen with drain wire	-20 °C to +70 °C cable route	IEC 60584-3 Class 1 / Class 2 option	13.0 mm
Multipair screened thermocouple instrumentation cable TX 8 pair 7/0.2 mm stranded / 24 AWG	TX	Extension grade	8 pair	7/0.2 mm stranded / 24 AWG	Positive copper / negative constantan	PVC or LSZH thermocouple pair insulation	Individual pair screen plus overall tape screen with drain wire	-20 °C to +70 °C cable route	IEC 60584-3 Class 1 / Class 2 option	13.1 mm
Multipair screened thermocouple instrumentation cable TX 12 pair 1/0.5 mm solid / 24 AWG	TX	Extension grade	12 pair	1/0.5 mm solid / 24 AWG	Positive copper / negative constantan	PVC or LSZH thermocouple pair insulation	Individual pair screen plus overall tape screen with drain wire	-20 °C to +70 °C cable route	IEC 60584-3 Class 1 / Class 2 option	14.7 mm
Multipair screened thermocouple instrumentation cable	TX	Extension grade	12 pair	7/0.2 mm stranded / 24 AWG	Positive copper / negative constantan	PVC or LSZH thermocouple pair insulation	Individual pair screen	-20 °C to +70 °C cable route	IEC 60584-3 Class 1 /	14.8 mm

Cable reference	Thermocouple type	Cable grade	Pair layout	Conductor construction	Alloy combination	Insulation / sheath	Screen / protection	Temperature range	Tolerance class	OD guide
TX 12 pair 7/0.2 mm stranded / 24 AWG					negative constantan	pair insulation	plus overall tape screen with drain wire		Class 2 option	
Multipair screened thermocouple instrumentation cable TX 24 pair 1/0.5 mm solid / 24 AWG	TX	Extension grade	24 pair	1/0.5 mm solid / 24 AWG	Positive copper / negative constantan	PVC or LSZH thermocouple pair insulation	Individual pair screen plus overall tape screen with drain wire	-20 °C to +70 °C cable route	IEC 60584-3 Class 1 / Class 2 option	18.4 mm
Multipair screened thermocouple instrumentation cable TX 24 pair 7/0.2 mm stranded / 24 AWG	TX	Extension grade	24 pair	7/0.2 mm stranded / 24 AWG	Positive copper / negative constantan	PVC or LSZH thermocouple pair insulation	Individual pair screen plus overall tape screen with drain wire	-20 °C to +70 °C cable route	IEC 60584-3 Class 1 / Class 2 option	18.5 mm