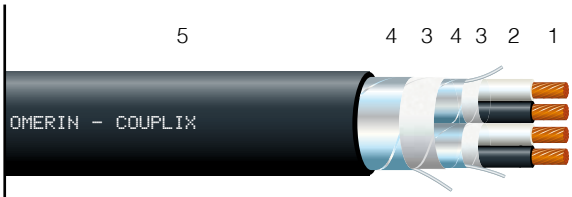
COUPLIX®
105°C / 200°C / 260°C
Thermocouple Extension wire

Construction
1 - Stranded or solid conductor extension: JX, KX, EX, TX
2 – Insulation (see table below)
3 - (optional) separating tape
4 - (optional) Individual or general electrical screen or braid + drain wire
5 – jacket (see table below)

Approvals - standards
• Conductors according to ANSI MC96.1
• RoHS Compliant

Options – please contact us
• Flat cable shape (parallel assembly)
•Overbraid in stainless steel
• Braided or taped shield



Use: Temperature sensors for industry and harness applications

Main products

Reference	Insulation	Jacket	Nb of pairs	AWG Size	Nominal stranding (Nb x AWG)	Nominal OD (in)	Approx. linear weight (lbs/mft)
COUPLIX® MY2-Y2 105°C	PVC	PVC	1P	22	7 x 30	.165	21
			2P	22	7 x 30	.227	31
			1P	18	7 x 26	.200	33
			2P	18	7 x 26	.285	51
			1P	16	7 x 24	.220	41
			2P	16	7 x 24	.320	62
COUPLIX® M6-6 200°C	FEP	FEP	1P	22	7 x 30	.130	15
			2P	22	7 x 30	.195	21
			1P	18	7 x 26	.170	26
			2P	18	7 x 26	.255	39
			1P	16	7 x 24	.196	34
			2P	16	7 x 24	.290	54
COUPLIX® M5-5 260°C	PFA	PFA	1P	22	7 x 30	.130	16
			2P	22	7 x 30	.195	22
			1P	18	7 x 26	.170	27
			2P	18	7 x 26	.255	40
			1P	16	7 x 24	.196	35
			2P	16	7 x 24	.290	55

Other number of singles and AWG sizes on request

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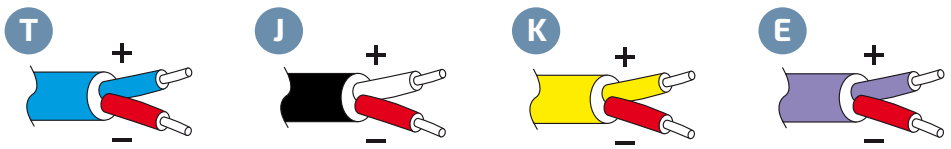
Thermocouple Extension wire

Available couple & their main characteristics

Type	Nature of metals + / -	Temperature range °C	Limits and recommendations	FEM at 0 °C µV	Seebeck coefficient at 0 °C µV/°C	Tolerance Extension Class 1	Tolerance Extension Class 2
T TX1 TX2	Copper + Cupro-Nickel -	-40°C to +350°C	Can be used in oxidizing, reducing or inert atmospheres and in a Vacuum. Rapid oxidisation above 370 °C. Used preferentially on couple J under negative temperatures due to better resistance to corrosion in a humid environment.	0.4	38.7	± 85 µV (± 1.5 °C)	± 140 µV (± 2.5 °C)
J JX1 JX2	Iron + Cupro-Nickel -	-40°C to +750°C	Can be used in oxidizing, reducing or inert atmospheres and in a Vacuum. Not recommended below 0 °C (risk of increased fragility). Rapid oxidization above 540 °C and in humid environment.	0.5	50.4	± 30 µV (± 0.5 °C)	± 60 µV (± 1.0 °C)
E EX1 EX2	Chromel + Cupro-Nickel -	-40°C to +900°C	Can be used in oxidizing or inert environment. Rapid oxidization above 540 °C and in sulphur-rich environment. Operation in Vacuum not recommended.	0.6	58.7	± 120 µV (± 1.5 °C)	± 200 µV (± 2.5 °C)
K KX1 KX2	Chromel + Nickel alloy -	-40°C to +1200°C	Can be used in oxidizing or inert environment. Unsuitable for use in sulphur-rich environment and unstable at high temperatures. Operation in Vacuum not recommended.	0.4	39.5	± 60 µV (± 1.5 °C)	± 100 µV (± 2.5 °C)

For other thermocouple type, please contact us



Product codification

Trademark of OMERIN	*Thermocouple type*		*OMERIN product reference*					*Composition*		*Stranding (conductor)*
COUPLIX®	KX1	-	BI	M	6	BE	-6	1P	22	7 / 30

Overbraid (mechanical protection)
Nothing = No Overbraid
BI = Overbraid in stainless steel
BG = Overbraid in galvanized steel

jacket material
Y2 = PVC 105°C
5 = PFA
6 = FEP
V = Fiberglass
VK = Polyimide / Fiberglass

Shielding
Nothing = No braid
BE = Tinned copper
BA = Silver copper
BAL = Alu/PET tape

Insulation material
Y2 = PVC 105°C
5 = PFA
6 = FEP
V = Fiberglass
VK = Polyimide / Fiberglass

2x / Number of pairs
2x = standard with
2 conductors
n p = thermocouple
with n pairs

Conductor cross sections
in AWG

Number of strands and diameter of each strand (in AWG)
7 / 30
7 / 26
7 / 24
...

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