

Thermocouple cables

Extension cable conductors are made of thermocouple material (recommended)
 Compensating cable not made of thermocouple material but has similar emf temperature characteristics over a limited temperature range
 IEC colour codes AJT offer the following cables in accordance with the new international colour codes
 Cable conductor sizes (7/0.2mm), the 7 represents the number of strands in each conductor. The 0.2mm represents the diameter of each strand.

PVC – extension cable – flat pair
 PVC insulated conductors with PVC outer sheath.
 Flat pair profile (conductors side by side).
 Each conductor is 7/0.2mm
 Usable temperature range –10 to +105°C
 Waterproof and very flexible

PVC – extension cable – flat pair
 Compensating cable is all that is available for Type R and S due to the cost of using platinum.
 Flat pair profile (conductors side by side).
 Each conductor is 7/0.2mm
 Usable temperature range –10 to +105°C
 Waterproof and very flexible

PVC – extension cable – twin twist
 PVC insulated conductors. Twisted together with Mylar aluminium tape with copper drain wire.
 Round profile
 PVC outer sheath
 Each conductor is 7/0.2mm
 Usable temperature range –10 to +105°C
 Waterproof and very flexible

IEC colour codes			
T/C	Outer sheath	+ve	-ve
J			
K			
T			
N			
R/S			

PTFE – extension cable – flat pair
 PFA extruded insulation on conductors and outer sheath
 Flat pair profile (conductors side by side).
 Each conductor is 7/0.2mm
 Usable temperature range –75 to +250°C
 Waterproof and fairly flexible

PTFE – extension cable – twin twist
 PFA extruded insulation on each conductor
 Twin twist profile (conductors twisted together but with no overall outer sheath).
 Single or multi-stand
 Usable temperature range –75 to +250°C
 Waterproof and very flexible

PTFE – autoclave cable – flat pair
 PTFE lapped and sintered extension cable
 For use in autoclaves / sterilizers
 Flat pair profile (conductors side by side).
 Each conductor is 7/0.2mm
 Usable temperature range –75 to +250°C
 Not waterproof and fairly flexible

PTFE with s / steel over-braid
 PTFE insulated conductors with stainless steel over-braid. Extension cable
 Flat pair profile (conductors side by side).
 Each conductor is 7/0.2mm
 Usable temperature range –75 to +250°C
 Waterproof and fairly flexible

F/G – extension cable – flat pair
 Fibre glass insulated conductors with fibreglass outer sheath
 Flat pair profile (conductors side by side).
 Each conductor is 7/0.2mm
 Usable temperature range –75 to +350°C
 Not waterproof but flexible

High temp. fibreglass (700°C)
 Thermocouple extension lead
 Special fibre glass insulated conductors with fibreglass outer sheath
 Flat pair profile (conductors side by side).
 Each conductor is 7/0.2mm
 Usable temperature range –75 to +700°C
 Not waterproof but flexible

Cable dimensions – outer diameter. Approx in mm					
PVC t/p	7/0.2	5x3	PVC comp	7/0.2	5x3
PVC screen	7/0.2	5	PTFE t/t	1/0.2	1
PTFE f/p	7/0.2	2x1		1/0.3	1
PTFE auto	7/0.2	2x1		1/0.5	1.75
PTFE braid	7/0.2	4		7/0.2	2
F/G	1/0.3	1	S/S braid	7/0.2	3x2
	1/0.5	2x1		14/0.2	3x2
	7/0.2	2x1		19/0.2	4

High temp. fibreglass for Type R/S
 Compensating cable for Type R & S
 Special fibre glass insulated conductors with fibreglass outer sheath
 Flat pair profile (conductors side by side).
 Each conductor is 1/0.508mm
 Usable temperature range –75 to +700°C
 Not waterproof but flexible

Stainless steel braid - extension
 Fibre glass insulated conductors with fibreglass outer and s/s over-braided sheath
 Flat pair profile (conductors side by side).
 Each conductor is 7/0.2mm
 Usable temperature range –60 to +350°C
 Not waterproof but flexible

High temp. s/s braid - extension
 Special fibre glass insulated conductors with fibreglass outer and s/s over-braided sheath
 Flat pair profile (conductors side by side).
 Each conductor is 7/0.2mm
 Usable temperature range –60 to +700°C
 Not waterproof but flexible

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