

FG-101

THERMOCOUPLE CABLE

FIBER GLASS - FIBER GLASS INSULATED
- 450°C



IS 8784, ANSI MC 96.1

Voltage Grade : 300V

SPECIFICATIONS

Conductor	: Solid, Multistrand, Thermocouple Grade Materials as per ASTM E230 & ANSI MC 96.1
Insulation	: Braided or Lapped Fiber with Silicon Varnish, High Temp. Saturated
Construction	: Flat
Outer Sheath	: Braided Fiber with Silicon Varnish, High Temp. Saturated
Operating Temp.	: 450°C
Limit of Error	: According to ASTM E230 / 77 / IEC 584
Color Code	: According to ANSI MC 96.1

FEATURES

- ✓ Max. Temp. Up to 450°C
- ✓ Excellent Physical Properties
- ✓ Excellent Di-Electric Constant
- ✓ High Temperature Stability
- ✓ High Thermal Endurance
- ✓ Good Moisture, Chemical Abrasion Resistance

AVAILABLE OPTIONS

- ✓ Double Fiber Braid Insulation
- ✓ Metal Coverings
- ✓ Tighter Than Special Limit Accuracy Tolerance
- ✓ Special Colour Code
- ✓ Calibration Test Report

CONSTRUCTION DETAILS AND DIMENSIONS

Cable Ordering Code	Wire Type	AWG / SWG No	No of Strands	Strain Dia (mm)	Cross Section Area (mm ²)	Nominal Bundled Conductor Dia (mm)	Cable Formation	Nominal Cable Diameter mm (Flat)	Nominal Cable Diameter mm (Twisted)	Cable Wgt (Approx.) Kg/Km
FG101	Solid	32 AWG	1	0.20	0.03	0.20	Flat	1.7 x 1.1	-	4.8
FG102	Solid	29 AWG	1	0.30	0.07	0.30	Flat	1.9 x 1.2	-	6.1
FG103	Solid	24 AWG	1	0.51	0.20	0.51	Flat	2.5 x 1.5	-	11.5
FG104	Multistrand	7X32 AWG	7	0.20	0.22	0.56	Flat	2.7 x 1.7	-	11.8
FG105	Multistrand	7X30 AWG	7	0.25	0.35	0.75	Flat	3.1 x 1.9	-	15.5
FG106	Solid	22 SWG	1	0.71	0.40	0.71	Flat	3.1 x 1.9	-	15.6
FG107	Multistrand	7X32 SWG	7	0.27	0.42	0.82	Flat	3.2 x 2.0	-	17.0
FG108	Solid	20 AWG	1	0.81	0.50	0.81	Flat	3.2 x 2.0	-	18.0
FG109	Multistrand	7X29 AWG	7	0.30	0.50	0.90	Flat	3.6 x 2.2	-	18.0
FG110	Multistrand	16X32 AWG	16	0.20	0.50	0.90	Flat	3.6 x 2.2	-	18.0
FG111	Multistrand	7X28 AWG	7	0.32	0.56	0.96	Flat	3.7 x 2.3	-	19.0
FG112	Multistrand	7X27 AWG	7	0.37	0.75	1.11	Flat	4.0 x 2.3	-	24.0
FG113	Multistrand	24X32 AWG	24	0.20	0.75	1.11	Flat	4.0 x 2.3	-	24.0
FG114	Solid	18 AWG	1	1.02	0.81	1.02	Flat	3.9 x 2.2	-	26.0
FG115	Multistrand	7X26 AWG	7	0.40	0.88	1.20	Flat	4.1 x 2.4	-	28.0
FG116	Solid	17 AWG	1	1.13	1.00	1.13	Flat	4.0 x 2.3	-	31.0
FG117	Multistrand	14X29 AWG	14	0.30	1.00	1.30	Flat	4.5 x 2.6	-	31.0
FG118	Multistrand	32X32 AWG	32	0.20	1.00	1.30	Flat	4.5 x 2.6	-	31.0
FG119	Multistrand	7 X 27 SWG	7	0.43	1.00	1.30	Flat	4.5 x 2.6	-	31.0
FG120	Multistrand	3X22 SWG	3	0.71	1.20	1.55	Flat	5.0 x 2.9	-	34.0
FG121	Multistrand	40X36 SWG	40	0.19	1.25	1.40	Flat	4.6 x 2.7	-	35.0
FG122	Solid	16 AWG	1	1.29	1.30	1.29	Flat	4.5 x 2.6	-	37.0
FG123	Multistrand	19X29 AWG	19	0.30	1.30	1.50	Flat	5.0 x 2.9	-	40.0
FG124	Multistrand	19 X 28 AWG	19	0.32	1.50	1.60	Flat	5.1 x 3.0	-	40.0
FG125	Multistrand	21X29 AWG	21	0.30	1.50	1.55	Flat	5.1 x 3.0	-	40.0
FG126	Multistrand	21X29 AWG	7	0.53	1.50	1.55	Flat	5.1 x 3.0	-	40.0
FG127	Multistrand	48X36 SWG	48	0.19	1.50	1.55	Flat	5.1 x 3.0	-	40.0

Note : Above Parameters are considering single pair cable

ORDERING CODE

Conductor Size	Type of T/C	Grade of Conductor	No. of Pairs	Color Code	Cable Formation
(FGXXX)	(X)	(X)	(XX)	(X)	(X)
101 to 127	K T J E N R S C B	T X C	01	A-(ANSI) I-(IEC) J-(JIS)	F-(Flat)

Table 1