



HIGH TEMPERATURE CABLES

Application:

Used for very high temperature applications in steel, chemical & metallurgical industry, nuclear power plants, oil exploration & oil rigs, military & defence equipments, aircraft & aerospace vehicle wiring, auto wiring, electrical appliances, etc.

Types & Sizes:

Starting from Single-core 0.50 sq.mm and up to higher sizes depending on customer requirements

ETFE - Ethylene tetrafluoroethylene

Features and benefits of ETFE-Cables:

- Excellent mechanical properties and hardness with high tensile strength
- High resistance to chemicals & solvents
- Good electric and insulation properties with low dielectric values
- Good resistance to hot and cold temperatures with operating temperature from approx. -90°C up to +150 °C

Conductor:

Bare/ Tinned copper (up to 150°C), Silver plated copper (up to 200°C), Nickel plated conductor (up to 260°C) or Thermocouples (KX, JX, TX, EX, SX/RX)

Insulation:

ETFE, FEP, PFA, Silicon

Screening:

Individual & Overall or Overall screening – Aluminium Mylar Tape with copper drain wire

FEP - Fluorinated ethylene propylene

Features and benefits of FEP Cables:

- Very high resistance to chemicals and oils
- High tolerance to cold working environment
- Good electric and insulation properties with low dielectric values
- Excellent temperature resistance with operating temperature from approx.
 -90°C up to +180°C

Armour:

Braiding with Bare/ Tinned/ Nickel plated/ Silver plated copper wire or fibre glass

Outer Sheath:

PVC, HDPE, FEP, PFA, Silicon, LSZH

Specifications:

JSS 51034, JSS 51037, JSS 51038, IS:8130

PFA - Perfluoroalkoxy alkanes

Features and benefits of PFA Cables:

- Very high resistance to chemicals and oils
- Low friction resistance
- Good electric and insulation properties with low dielectric values
- Excellent temperature resistance with operating temperature from approx.
 -90°C up to +250°C (and up to +260°C short term)

Technical Data for FEP/ PFA Insulated Single-core cables

No. of Cores & Cross Sectional Area	Conductor	Thickness of Insulation	Thickness of Outer sheath	Cable Weight	Max D.C Conductor Resistance at 20°C Ω/km			
No. X	No. X	Nom.	Nom.	Approx.				
sq.mm	Strand dia. (mm)	mm	mm	kg/km				
1C X 0.25	19 X 0.13	0.20	1.1	4	79.0			
1C X 0.5	19 X 0.18	0.20	1.4	6	40.1			
1C X 0.75	19 X 0.23	0.20	1.6	9	26.7			
1C X 1.0	19 X 0.26	0.25	1.8	12	20.0			
1C X 1.5	19 X 0.32	0.25	2.1	17	13.7			
1C X 2.5	19 X 0.41	0.25	2.6	27	8.21			
1C X 0.22	7 X 0.20	0.20	1.1	3.5	90.0			
1C X 0.5	16 X 0.20	0.20	1.4	6	40.1			
1C X 0.75	24 X 0.20	0.25	1.6	9	26.7			
1C X 1.0	32 X 0.20	0.25	1.9	12	20.0			
1C X 1.5	30 X 0.25	0.25	2.1	16	13.7			
1C X 2.5	50 X 0.25	0.25	2.6	26	8.21			
1C X 4.0	56 X 0.30	0.35	3.3	41	5.09			
1C X 6.0	84 X 0.30	0.35	3.9	61	3.39			
1C X 10.0	80 X 0.40	0.40	5.0	95	1.95			

Note

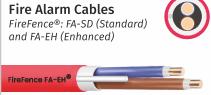
- Details given are for reference only and maybe revised without notice
- $oldsymbol{\circ}$ Colour coding to be selected by customer

1	Red 🛑	4	Black	•	7	Grey	10	0	Orange	13	Tan		16	Dark Grey		19	Dark Blue	
2	Yellow 🛑	5	Green	•	8	Brown 🛑	1	1	Violet	14	Charcoal		17	Light Green	:	20	Purple	
3	Blue	6	Yellow/ Green		9	White \bigcirc	13	2	Chocolate	15	Light Blue	5	18	Dark Green 🌑		21	Pink	

Cables that are built for every task,



























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