Application

Flat TPS(Thermoplastic-Sheathed) Cable is specifically designed for use in conduit and underground ducts in domestic, commercial, and industrial installations where it is not susceptible to mechanical damage. It is particularly suitable for single-phase applications that require neutral and earth connections.

Performance

Electrical Performance: Rated U0/U: 450/750V, ensuring reliable power distribution in various electrical systems.
Chemical Performance: Resistant to chemicals and oils, enhancing durability and longevity in demanding environments.
Mechanical Performance: Minimum bending radius of 4 times the cable diameter ensures flexibility and ease of installation.
Terminal Performance:
Nominal Operating Temperature: 70℃
Maximum Short-Circuit Temperature: 160℃ (max. 5s)
Minimum Service Temperature: -40℃
Fire Performance: Flame retardant properties ensure enhanced safety in the event of a fire.

Construction

Phase Conductor:
Class 1: Plain annealed solid copper wire
Class 2: Plain annealed stranded copper wire
Insulation:
PVC, V-90 rated, available in colors: Red, Black, Yellow/Green for easy identification and installation.
Earth Conductor:
Class 1: Plain annealed solid copper wire
Class 2: Plain annealed stranded copper wire
Outer Sheath:
PVC, 3V-90 rated, color: White, providing additional protection and insulation for the cable.

Specification

- AS/NZS 5000.2 Standard Flat TPS Cable

Eastful Cable Lab

We have CNAS Accredited Facility to assure conformity assessment services with a focus on quality, expertise, and customer satisfaction.
CNAS has international mutual recognition among IAF, ILAC, APLAC and PAC.

Accreditation

We meet the requirements of ISO9001, ISO14001, ISO45001 and ISO50001 and our cables have certificate of CCC, RoHS, CASC, UL, cUL, TÜV Rhineland and CCS.

National Green Factory

Our facility has been awarded of National Green Factory by Ministry of Industry and Information Technology of China.
We are committed to the development of high-end, intelligent and green manufacturing industry.

*The overall energy consumption level of green factories is better than the energy efficiency benchmark level.

Technical Parameters

Nominal Cross Section Area	Phase Conductor		Phase Insulation		Earth Conductor	
	Construction	Dia.	Nominal Thickness	Dia.	Construction	Dia.
mm^2	No./mm	mm	mm	mm	No./mm	mm
2x1.0+1.0	1/1.13	1.13	0.6	2.33	1/1.13	1.13
2x1.5+1.5	7/0.52	1.56	0.6	2.76	7/0.52	1.56
2x2.5+2.5	7/0.68	2.04	0.7	3.44	7/0.68	2.04
2x4+2.5	7/0.85	2.55	0.8	4.15	7/0.68	2.04
2x6+2.5	7/1.04	3.12	0.8	4.72	7/0.68	2.04
2x10+4	7/1.35	4.05	1.0	6.05	7/0.85	2.55
2x16+6	7/1.70	5.10	1.0	7.10	7/1.04	3.12

Nominal Cross Section Area	Earth Insulation		Outer Sheath			Approx. Weight
	Nominal Thickness	Dia.	Nominal Thickness	Width	Height	
mm^2	mm	mm	mm	mm	mm	kg/km
2x1.0+1.0	0.6	2.33	0.9	8.79	4.13	72.12
2x1.5+1.5	0.6	2.76	0.9	10.08	4.56	93.63
2x2.5+2.5	0.7	3.44	1.0	12.32	5.44	143.65
2x4+2.5	0.7	3.44	1.1	13.94	6.35	188.97
2x6+2.5	0.7	3.44	1.1	15.08	6.92	234.16
2x10+4	0.8	4.15	1.2	18.65	8.45	365.37
2x16+6	0.8	4.72	1.3	21.52	9.70	522.80