

FLAT TPS Cable, V-90 PVC insulated, Easytear PVC Sheathed 450/750V to AS/NZS5000.2



Note: The above drawing is for representation purpose only.

Description

Conductor:	Plain Annealed Copper AS/NZS1125
Insulation:	V90 PVC to AS/NZS3808
Sheath:	3V90 PVC to AS/NZS3808 -Easytear PVC sheath

Core identification

Twin & Twin Active core colors: Red & Black, Red & White (Twin Active)

Twin & Earth core colors: Red, Black & Green/Yellow

3 Cores and Earth colors: Red, Blue, White & Green/Yellow

Sheath Colour

White (mains), Blue (air conditioning), Yellow (switching)

Technical Data

Rated Voltage:	450/750V
Normal Operating Temperature:	90°C
Packing Length:	100m, 500m

Standards Compliance

AS/NZS 1125	IEC60332-1
AS/NZS 3808	AS/NZS5000.2

Characteristics

Flame Retarant	Easytear PVC
UV Stablised	

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Physical & Electrical Characteristics

AKY Code	Stranding (No./mm)	Insulation Thickness (mm)	Sheath Thickness (mm)	Approx. Overall Diameter (mm)	Approx. Weight (kg/km)
TWIN & TWIN ACTIVE (A=Twin Active)					
AFTW2010	2x1/1.13	0.6	0.9	6.5x4.2	50
AFTW2010A	2x1/1.13 Active	0.6	0.9	6.5x4.2	50
AFTW2015	2x7/0.5	0.6	0.9	7.2x4.6	62
AFTW2015A	2x7/0.5 Active	0.6	0.9	7.2x4.6	62
AFTW2025	2x7/0.67	0.7	1.0	8.9x5.5	95
AFTW2025A	2x7/0.67 Active	0.7	1.0	8.9x5.5	95
AFTW2040	2x7/0.85	0.8	1.1	10.6x6.5	145
AFTW2040A	2x7/0.85 Active	0.8	1.1	10.6x6.5	145
AFTW2060	2x7/1.04	0.8	1.1	11.7x7.1	190
AFTW2060A	2x7/1.04 Active	0.8	1.1	11.7x7.1	190
AFTW2100	2x7/1.35	1.0	1.2	14.6x8.6	301
AFTW2100A	2x7/1.35 Active	1.0	1.2	14.6x8.6	301
AFTW2160	2x7/1.7	1.0	1.3	16.9x9.9	439
AFTW2160A	2x7/1.7 Active	1.0	1.3	16.9x9.9	439
TWIN + Earth & 3CORE + Earth					
AFTE3010	2x1/1.13 + 7/0.42E	0.6	0.9	9.0x4.2	69
AFTE3015	2x7/0.50 + 7/0.50E	0.6	0.9	10.0x4.6	85
AFTE3025	2x7/0.67 + 7/0.67E	0.7	1.0	12.4x5.5	136
AFTE3040	2x7/0.85 + 7/0.67E	0.8	1.1	14.0x6.5	187
AFTE3060	2x7/1.04 + 7/0.67E	0.8	1.1	15.2x7.1	233
AFTE3100	2x7/1.35 + 7/0.85E	1.0	1.2	18.9x8.6	368
AFTE3160	2x7/1.70 + 7/1.04E	1.0	1.3	21.8x9.9	527
AFTPS4015	3x7/0.50 + 7/0.50E	0.6	0.9	12.6x4.6	111
AFTPS4025	3x7/0.67 + 7/0.67E	0.7	1.0	15.8x5.5	172

Note: There will be tolerances in conductor stranding. Actual production shall be subject to meet the resistance requirements.

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Current Rating & Electrical Characteristics

Conductor	Current Rating (A)			Electrical Characteristics	
	Nom. Area mm ²	Unenclosed Touching	Surrounded by thermal Insulation	Buried in Ducts	Max. cond. AC Resistance @20°C Ω/km
1.0	15	8	19	18.1	25.8
1.5	21	11	24	13.6	16.5
2.5	29	15	34	7.41	9.01
4.0	37	19	43	4.61	5.61
6.0	51	25	57	3.08	3.75
10	68	34	72	1.83	2.23
16	91	45	96	1.15	1.40



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