

SPECIFICATION

This specification is applied to UL 4703 standard

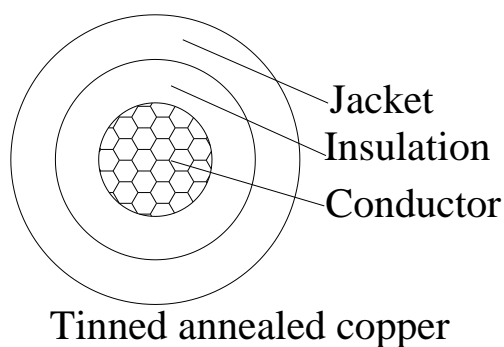
Type PV

- Rated voltage 600V
- Rated Temperature 90°C

Construction

Conductor		XLPE insulation			XLPE jacket		
Wire guage	No./mm	Min. average thickness mm	Min. thickness at any point mm	insulation diameter mm	Min. average thickness mm	Min. thickness at any point mm	insulation diameter mm
10AWG	65/0.32	1.14	1.02	5.4±0.10	0.76	0.61	7.0±0.20

Cross Section



Marking

(UL) E329163-S PV WIRE 10AWG 90°C WET OR DRY 600V SUN RES
-40C BAOHING

Jacket color

Black or other

Method of examination

According to UL4703 & UL 1581 & UL44

Electrical properties

ITEM		RESULT
Conductor resistance (20°C)		≤3.546Ω/km
Voltage test	Immersed in water 1 hour	All specimen shall withstand 3000V for 1 minute without break down
Spark test		All specimen shall withstand 7500V for 0.15 second without break down
Insulation resistance test	(15°C)	Not less than 920 GΩ•m.

Physical properties

Tensile strength and elongation of insulation	Un-aged	Tensile strength	10.3N/mm ²
		Elongation	150% Min.
	Aged in a full draft circulation air oven: 121±1°C/168 hrs	Tensile strength	70% min. of the value before aging
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Flame test	UL 1581	The sample must be lighted 5 times, each time continues 15 seconds and the isolated time is 15 seconds .After above, the flame of sample must be died out by itself in 60 seconds, at the meantime the sample shouldn't have the burning matter dropped down and the indication flag shouldn't be burned more than 25%	