



PT. HO WAH GENTING

Jl. Brigjen Katamso, Kawasan Bintang Industri II Lot 27-30

Tanjung Uncang, Pulau Batam 29422, Indonesia

Tlp. 62-778-393009 (Hunting Line) Fax. 62-778-392488 / 393010 / 393013

PRODUCT TECHNICAL SPECIFICATIONS

Description : UL STW 16/3C 105°C, 600 V (SBR)
Colour : White

Product Part Number : ST1603W-0/105G

Reference Standards : UL 62 & UL 2556

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Specification for UL STW 16x3C (SBR)

1. Scope

STW suitable for outdoor application

Cable Rating :

Rating temperature	Rating Voltage
105°C	600 V

2. Material and Structure

Component	Material	Structure	
Conductor	Stranded Annealed Bare Copper (SBR)	26/0.254 ± 0.003 mm	
	Minimum Cross Sectional Area	1.22 mm ²	
Insulation	PVC Compound, Colour : Green, Black, White	Insulation Thickness (mm)	
		Minimum	0.69
		Average	0.76
Sheated	PVC Compound, Colour : Black	Sheated Thickness (mm)	
		Minimum	1.22
		Average	1.52

3. Dimensional data of Cable

Conductor			Insulation				Sheated/Jacket		
Size	Construction Strands. No./mm	Length Lay Conductor Strands (mm)	Length of Twisted conductor (mm)	Minimum Thickness (mm)	Average Thickness (mm)	Diameter (mm)	Minimum Thickness (mm)	Average Thickness (mm)	Outer Diameter (mm)
AWG 16x3C	26/0.254	Max. 38	Max. 64	0.69	0.76	3.05 ± 0.20	1.22	1.52	9.80 ± 0.35

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4. Cable Wire Colour

Sheated/Jacket colours as follows :

No	Colour
1	White

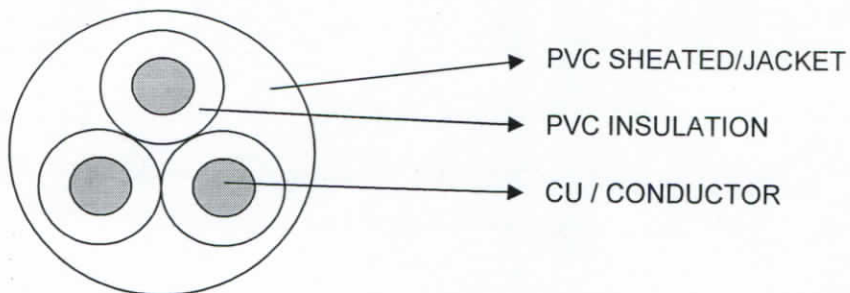
5. Marking Identification

The following markings shall be printed on the wire surface

E217996 (UL) STW VW-1 105°C 600V 3/C 1.31mm² (AWG 16)

c(UL) STW FT2 105°C 600V 3/C 16AWG (1.31mm²)

6. Diagram





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7. Characteristics of Flexible Cord UL STW AWG16x3C

No.	Testing Item	Characteristics
1	Appearance	It shall not show any damages on the surfaces of the cord
2	Dielectric Test	No Break down when 2 KV/min is applied between conductor and earth
3	Spark Tester	The insulation shall have no failure at the applied test voltage at 6 KV
4	Physical Properties	Before Ageing
		Tensile strength of Insulation & Sheated - Unaged minimum Tensile Strength : 1.05 kg/mm ² - Unaged minimum Elongation : 100%
		After Ageing
		Tensile strength of Insulation & Sheated : Minimum 85% & 70% of unaged Elongation of Insulation & Sheated : Minimum 65% & 45% of unaged
5	Deformation	The wire shall not deform more than 50% when subject to 121 ± 2°C for 1 hour at weight 400 gram
6	Cold Bend	Cord shall not show any cracks on the surface when it is wound around the mandrel 19 mm in temperature of -40 ± 2 °C/4 hours
7	Flame Test, VW-1/FT1	Flame shall extinguished less than 60 seconds after a total of 5 time application at 15 seconds each application