

**Specification:**

**XLPE INSULATED WIRE  
UL10368 16AWG TS -HF-**

**Description:**

**Rate temperature:**105℃

**Rate voltage:** 300V

**Reference standard:** UL cUL -F-

**Structure:**

**Conductor:**

Size : 16AWG

Construction : 26/0.254mm

Material: Tinned Annealed Stranded Copper

Resistance(@20℃,max): 14.6ohm/km

**Insulation:**

Min Ave Thickness: 0.23mm

Min any point Thickness:0.20mm

Core Dia.: **2.10±0.10 mm**

Material: XLPE (HALOGEN FREE MATERIAL)

Core Color: Optional

**Physical Character:**

**Insulation:**

( 136 ±1.0℃ ×168 H )	Unaged	Aged
Tensile Strength	1500 PSI MIN.	70% Unaged MIN.
Elongation	150 % MIN.	45% Unaged MIN.

**Heat Shock Test:** No Crack ( 136 ±1.0℃ ×1 H )

**Cold Bend Test:** No Crack ( -10 ±2.0℃ ×4 H )

**Deformation Test:** T2/T1 >50% ( 121±1.0℃ ×1 H )

**Flame Test:** VW-1

**Spark Test:** 3000V

**Voltage-Withstand Test:** 2000V for 1min

**Marking:**

**AWM 10368 16AWG VW-1 105 °C 300V  
E77981 WONDERFUL-D AWM I A FT1  
105 °C 300V -F- -LF- -HF-**

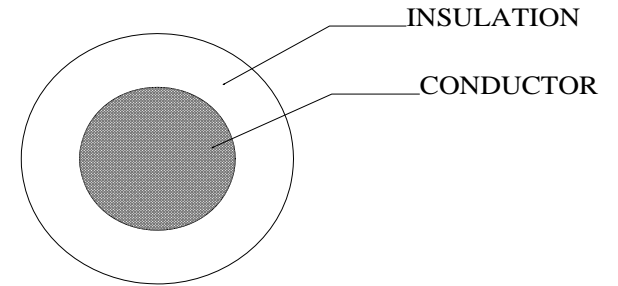
**The Environmental Statement:**

All the parts, materials and products conform to  
RoHS. Cd<5ppm, Pb<100ppm.  
Cl<900ppm, Br<900ppm, total halogens <1500ppm

**Remark:**

**The direct-current resistance shall be used for determining conductor size and cross-sectional area. Please see the section 5.3.4 of UL758.**

**Construction Drawing**



**Revised Record**

**Customer Approve**

Signature \_\_\_\_\_ Date \_\_\_\_\_

**Wonderful Photoelectricity(Dongguan)Co.,Ltd**

<b>Part No.</b>	<b>E6816TS01F</b>		
<b>Approved</b>	Lizhichen	<b>Rev</b>	2.0
<b>Checked</b>	Hehao	<b>Date</b>	2014.05.08
<b>Drawing</b>	Zhuxi	<b>Page</b>	1 of 1

**Specification:**

**XLPE INSULATED WIRE  
UL10368 20AWG TS -HF-**

**Description:**

**Rate temperature:** 105°C

**Rate voltage:** 300V

**Reference standard:** UL cUL -F-

**Structure:**

**Conductor:**

Size : 20AWG

Construction: 21/0.178mm

Material: Tinned Annealed Stranded Copper

Resistance(@20°C ,max): 36.7ohm/km

**Insulation:**

Min Ave Thickness: 0.23mm

Min any point Thickness:0.18mm

Core Dia.: 1.50±0.08 mm

Material: XLPE (HALOGEN FREE MATERIAL)

Core Color: Optional

**Physical Character:**

**Insulation:**

( 136 ±1.0°C ×168 H )	Unaged	Aged
Tensile Strength	1500 PSI MIN.	70% Unaged MIN.
Elongation	150 % MIN.	45% Unaged MIN.

**Heat Shock Test:** No Crack ( 136 ±1.0°C ×1 H )

**Cold Bend Test:** No Crack ( -10 ±2.0°C ×4 H )

**Deformation Test:** T2/T1 >50% ( 121±1.0°C ×1 H )

**Flame Test:** VW-1

**Spark Test:** 3000V

**Voltage-Withstand Test:** 2000V for 1min

**Marking:**

**AWM 10368 20AWG VW-1 105°C  
300V E77981 WONDERFUL-D cAWM I A  
FT1 105°C 300V -F- -LF- -HF-**

**The Environmental Statement:**

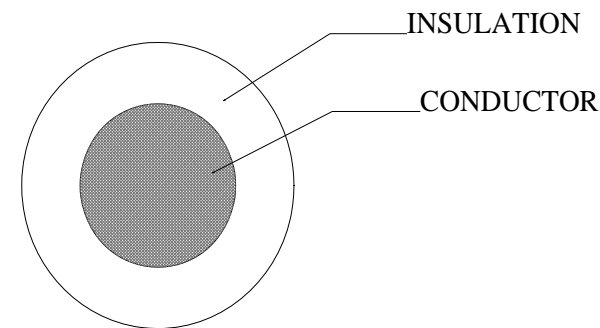
All the parts, materials and products conform to RoHS. Cd<5ppm, Pb<100ppm.

Cl<900ppm, Br<900ppm, total halogens <1500ppm

**Remark:**

**The direct-current resistance shall be used for determining conductor size and cross-sectional area.  
Please see the section 5.3.4 of UL758.**

**Construction Drawing**



**Revised Record**

**Customer Approve**

Signature \_\_\_\_\_ Date \_\_\_\_\_

**Wonderful Photoelectricity(Dongguan)Co.,Ltd**

<b>Part No.</b>	<b>E6820TS02F</b>		
<b>Approved</b>	Lizhichen	<b>Rev</b>	1.1
<b>Checked</b>	Hehao	<b>Date</b>	2018.05.22
<b>Drawing</b>	Denghaoqiang	<b>Page</b>	1 of 1