

Specification

PVC INSULATED WIRE UL1007 16AWG TS -LF-

Description:

Rate temperature: 80℃

Rate voltage: 300V

Reference standard: UL CSA -F-

Structure:

Conductor:

Size : 16AWG/1C

Construction: 26/0.254mm

Resistance(@20℃,max): 14.6ohm/km

Material: Tinned Annealed Stranded Copper

Insulation:

Min Ave Thickness: 0.38mm

Min Any point Thickness: 0.33mm

Core Dia.(+/-mm): 2.27±0.08 mm

Material: PVC

Core Color: Optional

Performance

Physical Character:

Insulation:

(113 ±1.0℃ ×168 H) Unaged Aged

Tensile Strength 1500 PSI MIN. 70% Unaged MIN.

Elongation 100 % MIN. 65% Unaged MIN.

Heat Shock Test: No Crack (121 ±2.0℃ ×1 H)

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

Deformation Test: T2/T1 >50% (121±2.0℃ ×1 H)

Flame Test: VW-1

Spark Test: 3000V

Voltage-Withstand Test: 2000V for 1min

Marking:

AWM 1007 16AWG VW-1 80℃ 300V E77981

WONDERFUL-D CSA AWM I A FT1 90℃ 300V

LL43774 -F- -LF-

The Environmental Statement:

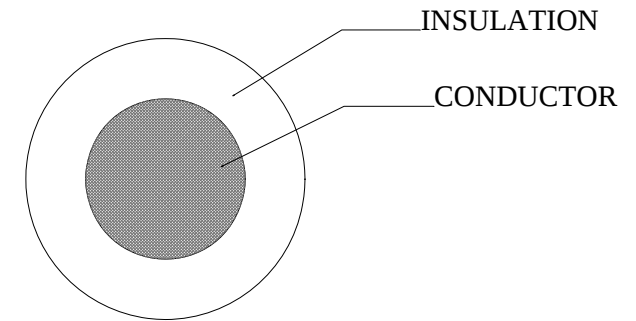
All the parts, materials and products conform to RoHS.

Cd<5ppm,Pb<100ppm.

Remarking:

**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 Section Drawing



Revised Record

Customer Approve

Signature_____ Date_____

Wonderful Photoelectricity(Dongguan)Co.,Ltd

Part No.	E0716TS009		
Approved	Lizhichen	Rev	2.0
Checked	Hehao	Date	2012-09-18
Drawing	Wangxi	Page	1 of 1

Specification

PVC INSULATED WIRE UL1007 18AWG TS -LF-

Description:

Rate temperature: 80℃

Rate voltage: 300V

Reference standard: UL CSA -F-

Structure:

Conductor:

Size : 18AWG /1C

Construction: 34/0.178mm

Resistance(@20℃,max): 23.2ohm/km

Material: Tinned Annealed Stranded Copper

Insulation:

Min Ave Thickness: 0.38mm

Min Any point Thickness: 0.33mm

Core Dia.(+/-mm): 2.00±0.08 mm

Material: PVC

Core Color: Optional

Performance

Physical Character:

Insulation:

(113 ±1.0℃ ×168 H) Unaged Aged

Tensile Strength 1500 PSI MIN. 70% Unaged MIN.

Elongation 100 % MIN. 65% Unaged MIN.

Heat Shock Test: No Crack (121 ±2.0℃ ×1 H)

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

Deformation Test: T2/T1 >50% (121±2.0℃ ×1 H)

Flame Test: VW-1

Spark Test: 3000V

Voltage-Withstand Test: 2000V for 1min

Marking:

AWM 1007 18AWG VW-1 80℃ 300V E77981
WONDERFUL-D CSA AWM I A FT1 90℃ 300V
LL43774 -F- -LF-

The Environmental Statement:

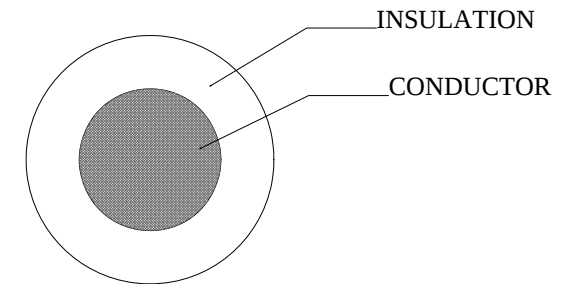
All the parts, materials and products conform to RoHS.

Cd<5ppm,Pb<100ppm.

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 Section Drawing



Revised Record

Customer Approve

Signature_____ Date_____

Wonderful Photoelectricity(Dongguan)Co.,Ltd

Part No.	E0718TS009		
Approved	Lizhichen	Rev	2.0
Checked	Hehao	Date	2012-09-18
Drawing	Wangxi	Page	1 of 1

Specification

PVC INSULATED WIRE UL1007 20AWG TS -LF-

Description:

Rate temperature: 80°C

Rate voltage: 300V

Reference standard: UL CSA -F-

Structure:

Conductor:

Size : 20AWG /1C

Construction: 21/0.178mm

Resistance(@20°C,max): 36.7ohm/km

Material: Tinned Annealed Stranded Copper

Insulation:

Min Ave Thickness: 0.38mm

Min Any point Thickness: 0.33mm

Core Dia.(+/-mm): 1.75±0.08 mm

Material: PVC

Core Color: Optional

Performance

Physical Character:

Insulation:

(113 ±1.0°C ×168 H) Unaged Aged

Tensile Strength 1500 PSI MIN. 70% Unaged MIN.

Elongation 100 % MIN. 65% Unaged MIN.

Heat Shock Test: No Crack (121 ±2.0°C ×1 H)

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

Deformation Test: T2/T1 >50% (121±2.0°C ×1 H)

Flame Test: VW-1

Spark Test: 3000V

Voltage-Withstand Test: 2000V for 1min

Marking:

**AWM 1007 20AWG VW-1 80°C 300V
E77981 WONDERFUL-D CSA AWM I A FT1 90°C
300V LL43774 -F- -LF-**

The Environmental Statement:

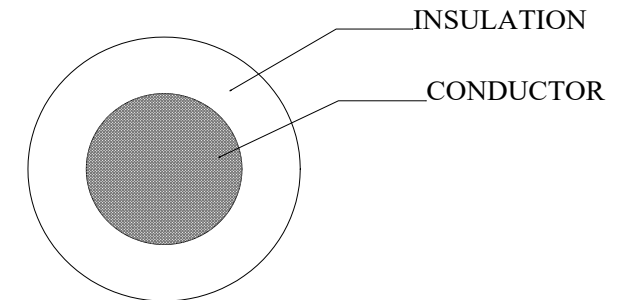
All the parts, materials and products conform to RoHS.

Cd<5ppm,Pb<100ppm.

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 Section Drawing



Revised Record

Customer Approve

Signature_____ Date_____

Wonderful Photoelectricity(Dongguan)Co.,Ltd

Part No.	E0720TS009		
Approved	Lizhichen	Rev	2.0
Checked	Hehao	Date	2012-09-18
Drawing	Wangxi	Page	1 of 1

Specification

PVC INSULATED WIRE UL1007 22AWG TS-LF-

Description:

Rate temperature: 80℃

Rate voltage: 300V

Reference standard: UL CSA -F-

Structure:

Conductor:

Size : 22AWG /1C

Construction: 17/0.160mm

Resistance(@20℃,max): 59.4ohm/km

Material: Tinned Annealed Stranded Copper

Insulation:

Min Ave Thickness: 0.38mm

Min Any point Thickness: 0.33mm

Core Dia.(+/-mm): 1.50±0.08mm

Material: PVC

Core Color: Optional

Performance

Physical Character:

Insulation:

(113 ±1.0℃ ×168 H) Unaged Aged

Tensile Strength 1500 PSI MIN. 70% Unaged MIN.

Elongation 100 % MIN. 65% Unaged MIN.

Heat Shock Test: No Crack (121 ±2.0℃ ×1 H)

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

Deformation Test: T2/T1 >50% (121±2.0℃ ×1 H)

Flame Test: VW-1

Spark Test: 3000V

Voltage-Withstand Test: 2000V for 1min

Marking:

AWM 1007 22AWG VW-1 80℃ 300V E77981

WONDERFUL-D CSA AWM I A FT1 90℃ 300V

LL43774 -F- -LF-

The Environmental Statement:

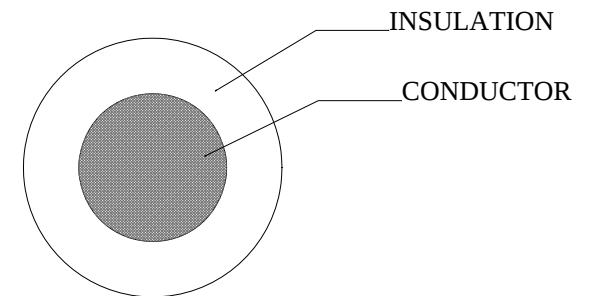
All the parts, materials and products conform to RoHS.

Cd<5ppm,Pb<100ppm.

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 Section Drawing



Revised Record

Customer Approve

Signature_____ Date_____

Wonderful Photoelectricity(Dongguan)Co.,Ltd

Part No.	E0722TS009		
Approved	Lizhichen	Rev	2.0
Checked	Hehao	Date	2012-09-18
Drawing	Wangxi	Page	1 of 1

Specification

PVC INSULATED WIRE UL1007 24AWG TS -LF-

Description:

Rate temperature: 80℃

Rate voltage: 300V

Reference standard: UL CSA -F-

Structure:

Conductor:

Size : 24AWG /1C

Construction: 11/0.160mm

Resistance(@20℃,max): 94.2ohm/km

Material: Tinned Annealed Stranded Copper

Insulation:

Min Ave Thickness: 0.38mm

Min Any point Thickness: 0.33mm

Core Dia.(+/-mm): 1.38±0.08 mm

Material: PVC

Core Color: Optional

Performance

Physical Character:

Insulation:

(113 ±1.0℃ ×168 H) Unaged Aged

Tensile Strength 1500 PSI MIN. 70% Unaged MIN.

Elongation 100 % MIN. 65% Unaged MIN.

Heat Shock Test: No Crack (121 ±2.0℃ ×1 H)

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

Deformation Test: T2/T1 >50% (121±2.0℃ ×1 H)

Flame Test: VW-1

Spark Test: 3000V

Voltage-Withstand Test: 2000V for 1min

Marking:

AWM 1007 24AWG VW-1 80℃ 300V E77981

WONDERFUL-D CSA AWM I A FT1 90℃ 300V

LL43774 -F- -LF-

The Environmental Statement:

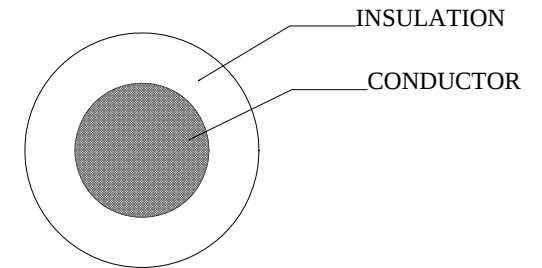
All the parts, materials and products conform to RoHS.

Cd<5ppm,Pb<100ppm.

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 Section Drawing



Revised Record

Customer Approve

Signature_____ Date_____

Wonderful Photoelectricity(Dongguan)Co.,Ltd

Part No.	E0724TS009		
Approved	Lizhichen	Rev	2.0
Checked	Hehao	Date	2012-09-18
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Specification

PVC INSULATED WIRE UL1007 26AWG TS -LF-

Description:

Rate temperature: 80℃

Rate voltage: 300V

Reference standard: UL CSA -F-

Structure:

Conductor:

Size : 26AWG /1C

Construction: 7/0.160 mm

Resistance(@20℃,max): 150ohm/km

Material: Tinned Annealed Stranded Copper

Insulation:

Min Ave Thickness: 0.38mm

Min Any point Thickness: 0.33mm

Core Dia.(+/-mm): 1.30±0.08 mm

Material: PVC

Core Color: Optional

Performance

Physical Character:

Insulation:

(113 ±1.0℃ ×168 H) Unaged Aged

Tensile Strength 1500 PSI MIN. 70% Unaged MIN.

Elongation 100 % MIN. 65% Unaged MIN.

Heat Shock Test: No Crack (121 ±2.0℃ ×1 H)

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

Deformation Test: T2/T1 >50% (121±2.0℃ ×1 H)

Flame Test: VW-1

Spark Test: 3000V

Voltage-Withstand Test: 2000V for 1min

Marking:

AWM 1007 26AWG VW-1 80℃ 300V E77981
WONDERFUL-D CSA AWM I A FT1 90℃ 300V
LL43774 -F- -LF-

The Environmental Statement:

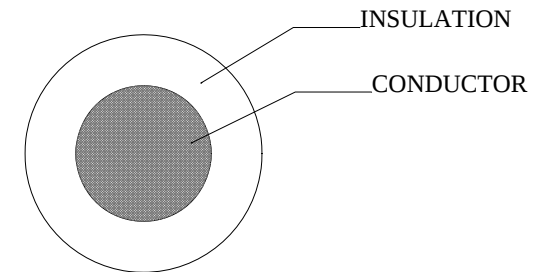
All the parts, materials and products conform to RoHS.

Cd<5ppm,Pb<100ppm.

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 Section Drawing



Revised Record

Customer Approve

Signature_____ Date_____

Wonderful Photoelectricity(Dongguan)Co.,Ltd

Part No.	E0726TS009		
Approved	Lizhichen	Rev	2.1
Checked	Hehao	Date	2019.11.20
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Specification

PVC INSULATED WIRE UL1007 28AWG TS -LF-

Description:

Rate temperature: 80℃

Rate voltage: 300V

Reference standard: UL CSA -F-

Structure:

Conductor:

Size : 28AWG /1C

Construction: 7/0.127 mm

Resistance(@20℃,max): 239ohm/km

Material: Tinned Annealed Stranded Copper

Insulation:

Min Ave Thickness: 0.38mm

Min Any point Thickness: 0.33mm

Core Dia.(+/-mm): 1.14±0.08mm

Material: PVC

Core Color: Optional

Performance

Physical Character:

Insulation:

(113 ±1.0℃ ×168 H) Unaged Aged

Tensile Strength 1500 PSI MIN. 70% Unaged MIN.

Elongation 100 % MIN. 65% Unaged MIN.

Heat Shock Test: No Crack (121 ±2.0℃ ×1 H)

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

Deformation Test: T2/T1 >50% (121±2.0℃ ×1 H)

Flame Test: VW-1

Spark Test: 3000V

Voltage-Withstand Test: 2000V for 1min

Marking:

**AWM 1007 28AWG VW-1 80℃ 300V E77981
WONDERFUL-D CSA AWM I A FT1 90℃ 300V
LL43774 -F- -LF-**

The Environmental Statement:

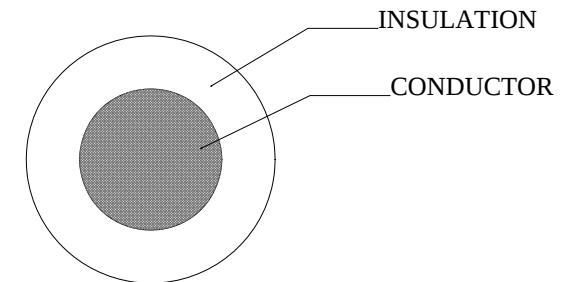
All the parts, materials and products conform to RoHS.

Cd<5ppm,Pb<100ppm.

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 Section Drawing



Revised Record

Customer Approve

Signature_____ Date_____

Wonderful Photoelectricity(Dongguan)Co.,Ltd

Part No.	E0728TS009		
Approved	Lizhichen	Rev	2.0
Checked	Hehao	Date	2012-09-18
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Specification

PVC INSULATED WIRE UL1007 30AWG TS -LF-

Description:

Rate temperature: 80℃

Rate voltage: 300V

Reference standard: UL CSA -F-

Structure:

Conductor:

Size : 30AWG /1C

Construction: 7/0.100 mm

Resistance(@20℃,max): 381ohm/km

Material: Tinned Annealed Stranded Copper

Insulation:

Min Ave Thickness: 0.38mm

Min Any point Thickness: 0.33mm

Core Dia.(+/-mm): 1.09±0.08mm

Material: PVC

Core Color: Optional

Performance

Physical Character:

Insulation:

(113 ±1.0℃ ×168 H) Unaged Aged

Tensile Strength 1500 PSI MIN. 70% Unaged MIN.

Elongation 100 % MIN. 65% Unaged MIN.

Heat Shock Test: No Crack (121 ±2.0℃ ×1 H)

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

Deformation Test: T2/T1 >50% (121±2.0℃ ×1 H)

Flame Test: VW-1

Spark Test: 3000V

Voltage-Withstand Test: 2000V for 1min

Marking:

AWM 1007 30AWG VW-1 80℃ 300V E77981
WONDERFUL-D CSA AWM I A FT1 90℃ 300V
LL43774 -F- -LF-

The Environmental Statement:

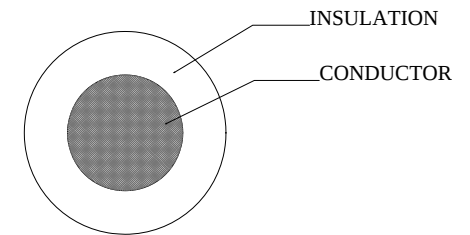
All the parts, materials and products conform to RoHS.

Cd<5ppm,Pb<100ppm.

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 Section Drawing



Revised Record

Customer Approve

Signature_____ Date_____

Wonderful Photoelectricity(Dongguan)Co.,Ltd

Part No.	E0730TS009		
Approved	Lizhichen	Rev	2.0
Checked	Hehao	Date	2012-09-18
Drawing	Wangxi	Page	1 of 1

Specification

PVC INSULATED WIRE UL1007 32AWG TS -LF-

Description:

Rate temperature: 80℃

Rate voltage: 300V

Reference standard: UL CSA -F-

Structure:

Conductor:

Size : 32AWG /1C

Construction: 7/0.080 mm

Resistance(@20℃,max): 588.85ohm/km

Material: Tinned Annealed Stranded Copper

Insulation:

Min Ave Thickness: 0.38mm

Min Any point Thickness: 0.33mm

Core Dia.(+/-mm): 1.00±0.08mm

Material: PVC

Core Color: Optional

Performance

Physical Character:

Insulation:

(113 ±1.0℃ ×168 H) Unaged Aged

Tensile Strength 1500 PSI MIN. 70% Unaged MIN.

Elongation 100 % MIN. 65% Unaged MIN.

Heat Shock Test: No Crack (121 ±2.0℃ ×1 H)

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

Deformation Test: T2/T1 >50% (121±2.0℃ ×1 H)

Flame Test: VW-1

Spark Test: 3000V

Voltage-Withstand Test: 2000V for 1min

Marking:

AWM 1007 32AWG VW-1 80℃ 300V E77981

WONDERFUL-D CSA AWM I A FT1 90℃ 300V

LL43774 -F- -LF-

The Environmental Statement:

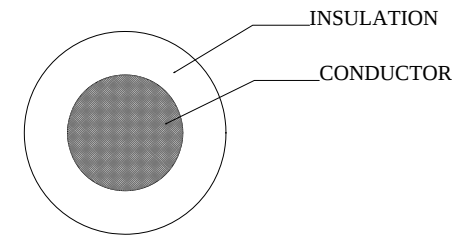
All the parts, materials and products conform to RoHS.

Cd<5ppm,Pb<100ppm.

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 Section Drawing



Revised Record

Customer Approve

Signature_____ Date_____

Wonderful Photoelectricity(Dongguan)Co.,Ltd

Part No.	E0732TS009		
Approved	Lizhichen	Rev	2.0
Checked	Hehao	Date	2012-09-18
Drawing	Wangxi	Page	1 of 1