

LONGTRONIC[®] Hybrid SPE Cable:

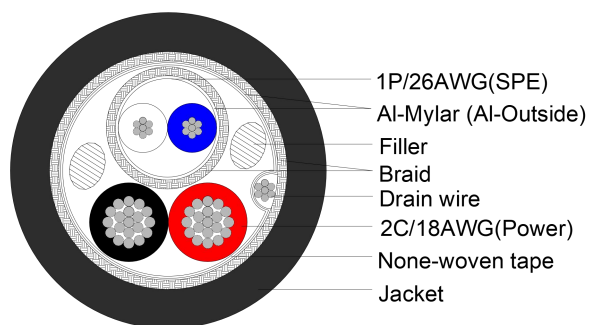
P/N: ZL5210006

Version: A/05

Date: 2023-08-08

1x2x26AWG/7+2x18AWG/19-PUR**Description**

This is hybrid cable that with SPE for data transmission and two counts for power line. The cable have excellent emc performance and with pur jacket, that can be used in industrial area.

Design**1P/26AWG(SPE):**

Conductor: 7*0.160mm bare copper

Insulation: Foam PE

O.D.: $1.12 \pm 0.05\text{mm}$

Color: White,Blue

Twist: Color: White-Blue

AL-Mylar

Braid: Tinned copper

Coverage: $\geq 80\%$ **2C/18AWG(Power):**

Conductor: 19*0.240mm bare copper

Insulation: PE

O.D.: $1.75 \pm 0.05\text{mm}$

Color: Red,Black

Cabling: Strand the spe and power wire together

Filler: Cotton Yarn

Wrapping 1#: None-woven tape (Overlapping $\geq 25\%$)Wrapping 2#: AL-Mylar (Overlapping $\geq 25\%$)

Drain wire: 7*0.160mm tinned copper

Braid: Tinned copper

Coverage: $\geq 80\%$

Jacket: PUR
 Color: Black (Similar to RAL9004)
 Thickness: Approx 0.85mm
 O.D.: 7.2 ± 0.3 mm

Marking: ZHAOLONG □ LONGTRONIC® □ HYBRID □ SPE □ CABLE □ □ 1x2x26AWG
 +2x18AWG □ PUR □ □ □ E324007 □  □ AWM □ 20549 □ 80 °C □ 300V □ FT2 □
 XXXXXX □ ****m

Note: "XXXXXX" means batch number; □ means blank; ****m means continuous length.

Electrical Characteristics (20°C)

Parameter	Unit	Spec.
Conductor DC resistance:	Ω/km	26AWG ≤ 150 18AWG ≤ 21.8
Resistance unbalance(SPE):	%	≤ 2
Dielectric Strength:	-	AC 1.5 KV for 1min. (conductor to conductor, conductor to ground)
Insulation Resistance:	MΩ.km	≥ 5000 (IEC 60189-1)

Transmission Characteristics (20°C)

Parameter	Spec.
Reference specification:	IEC 61156-12
Fitted characteristic impedance:	$100 \pm 5 \Omega$ at 100 MHz
Data transmission rate(15m Max.):	1 Gbps (600MHz)

Frequency (MHz)	Att. dB/100m Max.	RL dB Min.	TCL dB Min.	ELTCTL dB Min.	Delay ns/100m Max.	Transfer impedance mΩ/m Max.	Coupling att. dB Min.
1	3.08	/	40.00	40.00	/	50.00	/
4	5.62	23.01	40.00	27.96	552.00	75.89	/
8	7.83	24.52	36.45	21.94	546.73	93.50	/
10	8.73	25.00	35.00	20.00	545.38	99.99	/
16	11.01	25.00	31.94	15.92	543.00	134.54	/
20	12.31	25.00	30.48	13.98	542.05	154.89	/
25	13.76	24.17	29.03	12.04	541.20	178.31	/
30	15.08	23.49	27.84	10.46	540.57	200.05	55.00
62.5	21.86	20.74	23.06	5.00	538.55	/	55.00
100	27.79	18.99	20.00	5.00	537.60	/	55.00
200	39.71	16.40	15.48	5.00	536.55	/	56.00
250	44.59	15.60	14.03	5.00	536.28	/	57.00
300	49.04	15.60	12.84	5.00	536.08	/	58.00
400	57.02	15.60	10.97	5.00	535.80	/	59.00
500	64.14	15.60	9.52	5.00	535.61	/	60.00
600	70.65	15.60	8.33	5.00	535.47	/	61.00
800	/	/	/	/	/	/	62.00
1000	/	/	/	/	/	/	63.00

Other Characteristics

Operating temperature:	-40℃ to +80℃
Rated voltage:	300 V
Min bending radius:	5×OD (fixed)
Flame resistance:	FT2 , IEC 60332-1-2
Oil resistance:	100℃×96h (UL758)

This cable meets RoHS requirements.

Packing information

Packaging:	100m / reel;
	500m / drum;

Prepared by: Yiwu Li	Checked by: Bin You	Approved by: Yunxiang Yao
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