

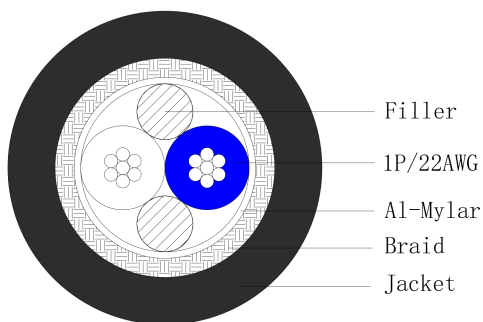
SPE Cable: S/FTP 1P/22AWG-PVC

1x2x22AWG/7

Description

Single pair cable with operating frequency up to 600 MHz. This cable is used for transmission data rate of 1Gbps in industrial premises with maximum distance up to 40m.

Design



Conductor: 7*0.254 mm bare copper
Insulation: Foam PE
OD: 1.70 ± 0.05 mm
Color: White, Blue
Twist: Color: White-Blue
Twisted with filler
Screen: Al-Mylar (Coverage≥100%)
Braid: Tinned copper
Coverage: ≥85%
Jacket: PVC
Color: Black (Similar to RAL9004)
Thickness: 0.75 mm Nom.
OD: 5.6 ± 0.3 mm

Marking: ZHAOLONG □ LONGTRONIC® □ SPE □ CABLE □ S/FTP □ 1x2x22AWG □ PVC □
IEC □ 60332-1-2 □ 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	≤55.4
Resistance unbalance	%	≤2
Dielectric strength	-	DC 1 kV for 1 min. (conductor to conductor, conductor to screen)

Insulation resistance	MΩ·km	≥5000
Capacitance unbalance	pF/km	≤1600 at 800 Hz or 1000 Hz

Transmission Characteristics (20°C)

Reference specification:	IEC61156-12
Fitted characteristic impedance:	100±5 Ω at 100 MHz

Frequency (MHz)	Att. dB/100m Max.	RL dB Min.	TCL dB Max.	ELTCTL dB Max.	Delay ns/100m Max.	Transfer impedance m Ω /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℃
Installation temperature:	-20℃ to +60℃
Rated voltage:	30V
Min. bend radius:	5×OD (fixed)
Flame resistance:	IEC60332-1-2,VW-1
Oil resistance:	60℃×168h (UL758)
This cable meets RoHS requirements.	

Packing information

Packaging:	200m / reel; 500m / drum;
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