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# **Excel your Imagine**

Pan-Asia is specialized in manufacturing high quality coaxial cables, network cables, control cables, etc. Pan-Asia manufactures 300,000 kilometers of high grade coaxial cable per year.

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Coaxial | Control | Speaker | Alarm | LAN | Armour | LSZH



### **Modern Factory**

The modern factory spans over 75,000 sq. meters and has complied with ISO 9001 & 14001. Equipped with several advanced testing & manufacturing facilities, Pan-Asia commits to provide superior products to customers. With their rich experience & technical skills, Pan-Asia thus has won good reputation around the world.

### **Advanced Facilities**

Through the unique production technique and deploying state-of-the-art equipments to monitor the production process of cables including in-line capacitance, wire gauging, attenuation, return loss, impedance and etc., the products of Pan-Asia meet the strict international requirements.

### **Professional Qualification**

Over the years, Pan-Asia has obtained several certifications to ensure the highest production standards.







### **Premier Products**

Quality is the soul of an enterprise. All production procedures of Pan-Asia follow the ISO 9001:2008 quality management system. From selection of raw materials, suppliers, production to product delivery, every step is governed by the system. Also, all products have to run quality checks with test reports to comply with industry standard and ensure highest product quality.

- Coaxial cable
- LAN cable

Armour cable

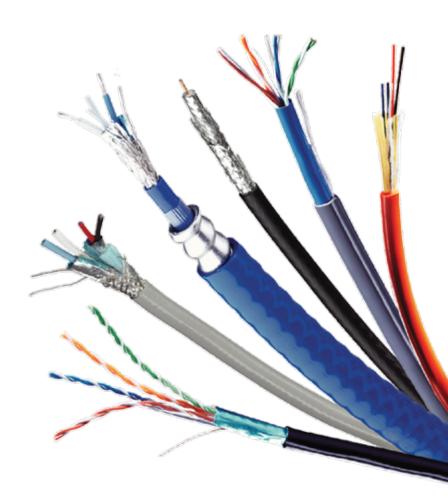
- Control cable
- Speaker cableAlarm cable
  - LSZH cable
- Tailor-made Service

To cope with your own engineering project needs, we can offer tailor made cables with particular specifications such as LSZH, Armour and customized molding and tooling.

Contact us at (852) 3182 0888 for more details.



# **Control Cable Speaker Cable Alarm Cable Cat.5e UTP Cable**





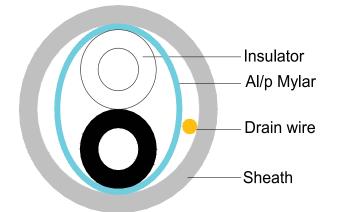


# **1-Pair 18AWG Shielded Control Cable**

# NO: PA-8760 (7408)



**CROSS SECTION** 



# ELECTRICAL CHARACTERISTICS (20°C)

Test item	Units	Spec
> Max Conductor DC Resistance	Ω/km	≤22.7
> Dielectric Strength between Pairs	kV/5min	1.5

# **RoHS GUIDELINE**

Cadmium content (Cd)	< 0.01%
Lead content (Pb)	<0.1%
Mercury content (Hg)	<0.1%
Chromium (VI) content	<0.1%
Polybrominated Biphenyls (PBB)	<0.1%
Polybrominated Diphenyl Ether (PBDE)	<0.1%

# **CABLE DESCRIPTION**

### 1 Conductor

Materia Stranding Wire Gage Dia.(+/-0.005mm) TC Stranded 18AWG 0.25\*16

### **2** Insulation

Materia Dia.(+/-0.05mm) Color Code

### 3 Cabling

Order of the Pair Direction Drain Wire Shielding

Materia Dia.(+/-0.2mm) Thickness(+/-0.05mm)

HDPE 2.16 Clear/Black

See the Cross Section **Right Hand Lay** TC 0.25\*10 AL/P

## 4 Outer Sheath

PVC 5.6 0.72

# SHEATH MECHANICAL CHARACTERISTICS

### Reference Standard : UL 444

Test Material: PVC

Before	Tensile Strength (Mpa)	≥13.8
Aging	Elongation (%)	≥100
After	Tensile Strength (% of unaged)	≥85
Aging	Elongation (%)	≥50
Cold Be	nd (-20±°C×4hrs)	No crack
Operati	ng Temperature Range	-10~+60°C
Min Ber	nd Radius (Install)	8×D

Note: The specifications are subjected to change without prior notice.

Version 1.1-53-23-8760



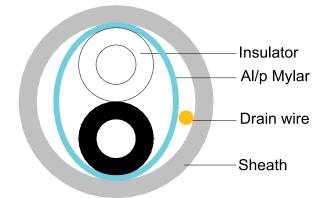
# **1-Pair 18AWG Shielded Control Cable** (LSZH)

**NO: PA-8760L** (7408F)

PIONEERING THE CABLE INDUSTRY WORLDWIDE

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# **CROSS SECTION**



# **CABLE DESCRIPTION**

### 1 Conductor

Materia Stranding Wire Gage Dia.(+/-0.005mm) TC Stranded 18AWG 0.25\*16

### 2 Insulation

Materia Dia.(+/-0.05mm) Color Code

## 3 Cabling

Order of the Pair Direction Drain Wire Shielding

## 4 Outer Sheath

Materia Dia.(+/-0.2mm) Thickness(+/-0.05mm) HDPE 2.16 Clear/Black

See the Cross Section **Right Hand Lay** TC 0.25\*10 AL/P

LSZH 5.6 0.72

# ELECTRICAL CHARACTERISTICS (20°C)

Test item	Units	Spec
> Max Conductor DC Resistance	Ω/km	≤22.7
> Dielectric Strength between Pairs	kV/5min	1.5

# **RoHS GUIDELINE**

< 0.01%
<0.1%
<0.1%
<0.1%
<0.1%
<0.1%

# SHEATH FLAME CHARACTERISTICS

>	Halogen content test	IEC 60754-1
>	Smoke density	IEC 61034-2

# SHEATH MECHANICAL CHARACTERISTICS

### Reference Standard : UL 444

Test Material: LSZH				
Before	Tensile Strength (Mpa)	≥8.3		
Aging	Elongation (%)	≥100		
After	Tensile Strength (% of unaged)	≥75		
Aging	Elongation (%)	≥75		
Cold Be	nd (-20±°C×4hrs)	No crack		
Operati	ng Temperature Range	-20~+70°C		
Min Ber	nd Radius (Install)	8×D		

Note: The specifications are subjected to change without prior notice.

Version 1.1-53-23-9760

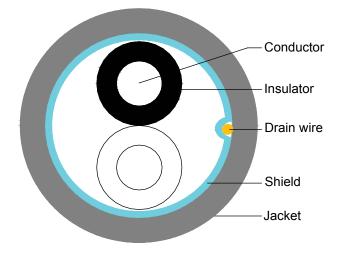


# **1-Pair 22AWG Shielded Control Cable**

# NO: PA-8761 (7609)



CROSS SECTION



# ELECTRICAL CHARACTERISTICS (20°C)

Test item	Units	Spec
> Max Conductor DC Resistance	Ω/km	≤57.4
> Dielectric Strength between Pairs	kV/5min	1.5

**RoHS GUIDELINE** 

%
1

# CABLE DESCRIPTION

### 1 Conductor

Material Stranding Dia.(+/-0.01mm) AWG TC Stranded 0.250\*7 22

### **2** Insulation

Material Dia.(+/-0.05mm) Color Code

## 3 Cabling

Order of the Pair Direction Drain Wire Shielding

### 4 Outer Sheath

Material Dia.(+/-0.2mm) Thickness(+/-0.05mm)

HDPE 1.58 BK/CLEAR

See the Cross Section Right Hand Lay TC 0.25\*7 AL/P

PVC 4.5 0.65

# SHEATH MECHANICAL CHARACTERISTICS

### Reference Standard : UL 444

Test Ma	terial: PVC	
Before	Tensile Strength (Mpa)	>13.8
Aging	Elongation (%)	>100
After	Tensile Strength (% of unaged)	≥85
Aging	Elongation (%)	≥50
Cold Be	nd (-20±°C×4hrs)	No crack
Operati	ng Temperature Range	-10~+60°C
Min Ber	nd Radius (Install)	8×D

Note: The specifications are subjected to change without prior notice.

Version 1.1-53-23-8761

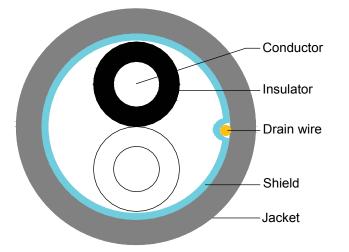


# 1-Pair 22AWG Shielded Control Cable (LSZH)

# NO: PA-8761L (7609F)



# CROSS SECTION



# CABLE DESCRIPTION

### 1 Conductor

Material Stranding Dia.(+/-0.01mm) AWG TC Stranded 0.250\*7 22

HDPE

### 2 Insulation

Material Dia.(+/-0.05mm) Color Code

## 3 Cabling

Order of the Pair Direction Drain Wire Shielding

## 4 Outer Sheath

Material Dia.(+/-0.2mm) Thickness(+/-0.05mm)

1.58 BK/CLEAR

See the Cross Section Right Hand Lay TC 0.25\*7 AL/P

LSZH 4.5 0.65

# ELECTRICAL CHARACTERISTICS (20°C)

Test item	Units	Spec
> Max Conductor DC Resistance	Ω/km	≤57.4
> Dielectric Strength between Pairs	kV/5min	1.5

# **RoHS GUIDELINE**

Cadmium content (Cd)	< 0.01%
Lead content (Pb)	<0.1%
Mercury content (Hg)	<0.1%
Chromium (VI) content	<0.1%
Polybrominated Biphenyls (PBB)	<0.1%
Polybrominated Diphenyl Ether (PBDE)	<0.1%

# SHEATH FLAME CHARACTERISTICS

>	Halogen content test	IEC 60754-1
>	Smoke density	IEC 61034-2

# SHEATH MECHANICAL CHARACTERISTICS

### Reference Standard : UL 444

Test Material: LSZH				
Before	Tensile Strength (Mpa)	≥8.3		
Aging	Elongation (%)	≥100		
After	Tensile Strength (% of unaged)	≥75		
Aging	Elongation (% of unaged)	≥75		
Cold Be	nd (-20±°C×4hrs)	No crack		
Operati	ng Temperature Range	-20~+70°C		
Min Ber	nd Radius (Install)	8×D		

Note: The specifications are subjected to change without prior notice.

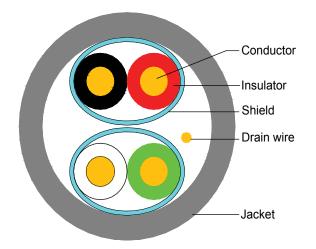
Version 1.1-53-23-9761



# 2-Pair 22AWG Individually Shielded Control Cable NO: PA-7607



# CROSS SECTION



# ELECTRICAL CHARACTERISTICS (20°C)

Test item	Units	Spec
> Max Conductor DC Resistance	Ω/km	≤57.4
> Dielectric Strength between Pairs	kV/5min	1.5
> Rated Voltage	V	300
> Min Insulation Resistance	MΩ·km	≥50

# **RoHS GUIDELINE**

Cadmium content (Cd)	< 0.01%
Lead content (Pb)	< 0.1%
Mercury content (Hg)	< 0.1%
Chromium (VI) content	< 0.1%
Polybrominated Biphenyls (PBB)	< 0.1%
Polybrominated Diphenyl Ether (PBDE)	< 0.1%

# CABLE DESCRIPTION

### 1 Conductor

Material Stranding Dia.(+/-0.01mm) AWG TC Stranded 0.250\*7 22

### 2 Insulation

Material Dia.(+/-0.05mm) Color Code

## 3 Cabling

Order of the Pair Direction Drain Wire Shielding

### 4 Outer Sheath

Material Dia.(+/-0.2mm) Thickness(+/-0.05mm)

HDPE 1.16 BK/RD&GN/WH

See the Cross Section Right Hand Lay TC 0.2\*7 AL/P

PVC 4.1 0.48

# SHEATH MECHANICAL CHARACTERISTICS

### Reference Standard : UL 444

Test Material: PVC			
Before	Tensile Strength(Mpa)	≥13.8	
Aging	Elongation(%)	≥100	
After	Tensile Strength (% of unaged)	≥85	
Aging	Elongation(%)	≥50	
Cold Bend(-20±°C×4hrs)		No crack	
Operati	-10~+60°C		
Min Bend Radius(Install)		8×D	

Note: The specifications are subjected to change without prior notice.

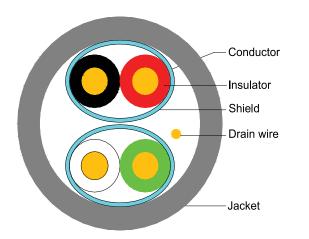
Version 1.1-53-23-8723



# 2-Pair 22AWG Individually Shielded Control Cable NO: PA-8723L (LSZH)



# CROSS SECTION



# ELECTRICAL CHARACTERISTICS (20°C)

Test item	Units	Spec
> Max Conductor DC Resistance	Ω/km	≤57.4
> Dielectric Strength between Pairs	kV/5min	1.5
> Rated Voltage	V	300
> Min Insulation Resistance	MΩ·km	≥50

# **RoHS GUIDELINE**

Cadmium content (Cd)	< 0.01%
Lead content (Pb)	< 0.1%
Mercury content (Hg)	< 0.1%
Chromium (VI) content	< 0.1%
Polybrominated Biphenyls (PBB)	< 0.1%
Polybrominated Diphenyl Ether (PBDE)	< 0.1%

# CABLE DESCRIPTION

### 1 Conductor

Material Stranding Dia.(+/-0.01mm) AWG

### 2 Insulation

Material Dia.(+/-0.05mm) Color Code 22 HDPE

TC

Stranded

0.250\*7

1.16 BK/RD&GN/WH

## 3 Cabling

Order of the Pair Direction Drain Wire Shielding

### 4 Outer Sheath

Material Dia.(+/-0.2mm) Thickness(+/-0.05mm)

### See the Cross Section Right Hand Lay TC 0.2\*7 AL/P

LSZH 4.1

0.48

# SHEATH FLAME CHARACTERISTICS

>	Halogen content test	IEC 60754-1
>	Smoke density	IEC 61034-2

# SHEATH MECHANICAL CHARACTERISTICS

### Reference Standard : UL 444

Test Material: LSZH				
Before	Tensile Strength(Mpa)	≥8.3		
Aging	Elongation(%)	≥100		
After	Tensile Strength (% of unaged)	≥75		
Aging	Elongation(%)	≥75		
Cold Be	nd(-20±°C×4hrs)	No crack		
Operati	ng Temperature Range	-20~+70°C		
Min Ber	nd Radius(Install)	8×D		

Note: The specifications are subjected to change without prior notice.

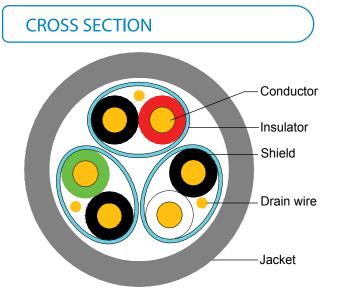
Version 1.1-53-23-9723



# **3-Pairs 22AWG Individually Shielded Control Cable**

# NO: PA-8777 (7603)





# ELECTRICAL CHARACTERISTICS (20°C)

Test item	Units	Spec
> Max Conductor DC Resistance	Ω/km	≤57.4
> Dielectric Strength between Pairs	kV/5min	1.5
> Rated Voltage	V	300
> Min Insulation Resistance	MΩ∙km	≥50

# **RoHS GUIDELINE**

Cadmium content (Cd)	< 0.01%
Lead content (Pb)	< 0.1%
Mercury content (Hg)	< 0.1%
Chromium (VI) content	< 0.1%
Polybrominated Biphenyls (PBB)	< 0.1%
Polybrominated Diphenyl Ether (PBDE)	< 0.1%

# **CABLE DESCRIPTION**

### 1 Conductor

Material Stranding Dia.(+/-0.01mm) AWG

### TC Stranded 0.250\*7

22

### **2** Insulation

Material Dia.(+/-0.05mm) Color Code

HDPE 1.28 BK/RD&BK/WH&BK/GN

## 3 Cabling

Order of the Pair Direction Drain Wire Shielding

### **Right Hand Lay** TC 0.25\*7 AL/P

### 4 Outer Sheath

Material Dia.(+/-0.2mm) Thickness(+/-0.05mm) See the Cross Section

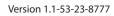
PVC 6.9 0.70

# SHEATH MECHANICAL CHARACTERISTICS

### Reference Standard : UL 444

lest Ma	terial: PVC	
Before	Tensile Strength(Mpa)	≥13.8
Aging	Elongation(%)	≥100
After	Tensile Strength (% of unaged)	≥85
Aging	Elongation(%)	≥50
Cold Be	nd(-20±°C×4hrs)	No crack
Operati	ng Temperature Range	-10~+60°C
Min Ber	nd Radius(Install)	8×D

Note: The specifications are subjected to change without prior notice.





Conductor

-Insulator Shield

Drain wire

Jacket

# NO: PA-8777L

**CROSS SECTION** 

ELECTRICAL CHARACTERISTICS (20°C)

PIONFERING THE CABLE INDUSTRY

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WORLDWIDE

Test item	Units	Spec
> Max Conductor DC Resistance	Ω/km	≤57.4
> Dielectric Strength between Pairs	kV/5min	1.5
> Rated Voltage	V	300
> Min Insulation Resistance	MΩ·km	≥50

# **RoHS GUIDELINE**

(LSZH)

Cadmium content (Cd)	< 0.01%
Lead content (Pb)	< 0.1%
Mercury content (Hg)	< 0.1%
Chromium (VI) content	< 0.1%
Polybrominated Biphenyls (PBB)	< 0.1%
Polybrominated Diphenyl Ether (PBDE)	< 0.1%

# SHEATH FLAME CHARACTERISTICS

>	Halogen content test	IEC 60754-1
>	Smoke density	IEC 61034-2

# SHEATH MECHANICAL CHARACTERISTICS

### Reference Standard : UL 444

Test Material: LSZH				
Before	Tensile Strength(Mpa)	≥8.3		
Aging	Elongation(%)	≥100		
After	Tensile Strength (% of unaged)	≥75		
Aging	Elongation(%)	≥75		
Cold Be	end(-20±°C×4hrs)	No crack		
Operati	ng Temperature Range	-20~+70°C		
Min Bei	nd Radius(Install)	8×D		

Note: The specifications are subjected to change without prior notice.

Version 1.1-53-23-9777



# **CABLE DESCRIPTION**

## 1 Conductor

Material Stranding Dia.(+/-0.01mm) AWG

## 2 Insulation

Material Dia.(+/-0.05mm) Color Code

HDPE 1.28 BK/RD&BK/WH&BK/GN

See the Cross Section

**Right Hand Lay** 

TC 0.25\*7

AL/P

LSZH

6.9

0.70

TC

22

Stranded

0.250\*7

### 3 Cabling

Order of the Pair Direction Drain Wire Shielding

4 Outer Sheath

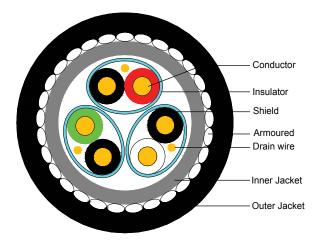
Material Dia.(+/-0.2mm) Thickness(+/-0.05mm)



# 3-Pairs 22AWG Individually Shielded Control Cable w/SWA **NO: PA-8777A**



CROSS SECTION



# ELECTRICAL CHARACTERISTICS (20°C)

Test item	Units	Spec
> Max Conductor DC Resistance	Ω/km	≤57.4
> Dielectric Strength between Pairs	kV/5min	1.5
> Rated Voltage	V	300
> Min Insulation Resistance	MΩ·km	≥50

# **RoHS GUIDELINE**

Cadmium content (Cd)	< 0.01%
Lead content (Pb)	< 0.1%
Mercury content (Hg)	< 0.1%
Chromium (VI) content	< 0.1%
Polybrominated Biphenyls (PBB)	< 0.1%
Polybrominated Diphenyl Ether (PBDE)	< 0.1%

# **CABLE DESCRIPTION**

### 1 Conductor

Material Stranding Dia.(+/-0.01mm) AWG TC Stranded 0.250\*7 22

### 2 Insulation

Material Dia.(+/-0.05mm) Color Code HDPE 1.28 BK/RD&BK/WH&BK/GN

## 3 Cabling

Order of the Pair Direction Drain Wire Shielding

# hielding

4 Outer Sheath Material Dia.(+/-0.2mm) Thickness(+/-0.05mm) Armoured Right Hand Lay TC 0.25\*7 AL/P

See the Cross Section

### Inner Outer PVC LDPE

6.9 10.7 0.70 1.10 SWA 0.8\*29

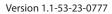
# SHEATH MECHANICAL CHARACTERISTICS

### Reference Standard : UL 444

### Test Material: LDPE

Before	Tensile Strength(Mpa)	≥9.7
Aging	Elongation(%)	≥350
After	Tensile Strength (% of unaged)	≥75
Aging	Elongation(%)	≥75
Cold Be	nd(-20±°C×4hrs)	No crack
Operati	ng Temperature Range	-40~+60°C
Min.Ber	nd Radius(Install)	12×D

Note: The specifications are subjected to change without prior notice.









# 1-Pair 19 AWG Speaker Cable

# NO: PA-1902 (7519)



CROSS SECTION Conductor Insulation Jacket

# CABLE DESCRIPTION

### 1 Conductor

Material Stranding Dia.(+/-0.01mm)

### 2 Insulation

Material Dia.(+/-0.05mm) Color Code PVC 2.20 BK/WH

Bare Copper

Stranded

0.21\*19

## 3 Cabling

Order of the Pair Direction

## 4 Outer Sheath

Material Dia.(+/-0.2mm) Thickness(+/-0.05mm) See the Cross Section Right Hand Lay

PVC 5.7 0.65

# ELECTRICAL CHARACTERISTICS (20°C)

Test item	Units	Spec
> Max Conductor DC Resistance	Ω/km	≤27.5
> Dielectric Strength between Pairs	kV/5min	1.5

# **RoHS GUIDELINE**

Cadmium content (Cd)	< 0.01%
Lead content (Pb)	<0.1%
Mercury content (Hg)	<0.1%
Chromium (VI) content	<0.1%
Polybrominated Biphenyls (PBB)	<0.1%
Polybrominated Diphenyl Ether (PBDE)	<0.1%

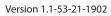
# SHEATH MECHANICAL CHARACTERISTICS

### Reference Standard : UL 444

Test	Mate	ria <b>l</b> :	PVC	

Before	Tensile Strength (Mpa)	≥13.8
Aging	Elongation (%)	≥100
After	Tensile Strength (% of unaged)	≥85
Aging	Elongation (%)	≥50
Cold Be	nd (-20±°C×4hrs)	No crack
Operati	ng Temperature Range	-10~+60°C
Min Ben	d Radius (Install)	8×D

Note: The specifications are subjected to change without prior notice.

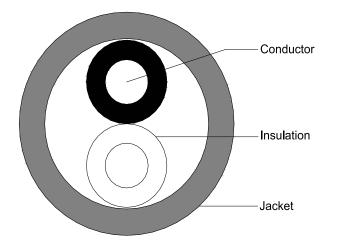




# 1-Pair 19 AWG Speaker Cable (LSZH) NO: PA-1902L



CROSS SECTION



# CABLE DESCRIPTION

### 1 Conductor

Material Stranding Dia.(+/-0.01mm)

## 2 Insulation

Material Dia.(+/-0.05mm) Color Code

## 3 Cabling

Order of the Pair Direction

## 4 Outer Sheath

Material Dia.(+/-0.2mm) Thickness(+/-0.05mm)

# See the Cross Section Right Hand Lay

**Bare Copper** 

Stranded

0.21\*19

PVC

2.20

**BK/WH** 

LSZH 5.7 0.65

# ELECTRICAL CHARACTERISTICS (20°C)

Test item	Units	Spec
> Max Conductor DC Resistance	Ω/km	≤27.5
> Dielectric Strength between Pairs	kV/5min	1.5

# **RoHS GUIDELINE**

Cadmium content (Cd)	< 0.01%
Lead content (Pb)	<0.1%
Mercury content (Hg)	<0.1%
Chromium (VI) content	<0.1%
Polybrominated Biphenyls (PBB)	<0.1%
Polybrominated Diphenyl Ether (PBDE)	<0.1%

# SHEATH FLAME CHARACTERISTICS

>	Halogen content test	IEC 60754-1
>	Smoke density	IEC 61034-2

# SHEATH MECHANICAL CHARACTERISTICS

### Reference Standard : UL 444

Test Material: LSZH			
Before	Tensile Strength (Mpa)	≥8.3	
Aging	Elongation (%)	≥100	
After	Tensile Strength (% of unaged)	≥75	
Aging	Elongation (%)	≥75	
Cold Be	nd (-20±°C×4hrs)	No crack	
Operati	ng Temperature Range	-20~+70°C	
Min Ber	nd Radius (Install)	8×D	

Note: The specifications are subjected to change without prior notice.

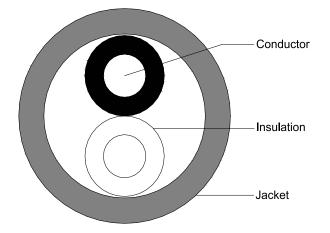
Version 1.1-53-21-1903



# 1-Pair 19 AWG Speaker Cable NO: PA-19021



**CROSS SECTION** 



# **ELECTRICAL CHARACTERISTICS (20°C)**

Test item	Units	Spec
> Max Conductor DC Resistance	Ω/km	≤28.3
> Dielectric Strength between Pairs	kV/5min	1.5

# **RoHS GUIDELINE**

Cadmium content (Cd)	< 0.01%
Lead content (Pb)	<0.1%
Mercury content (Hg)	<0.1%
Chromium (VI) content	<0.1%
Polybrominated Biphenyls (PBB)	<0.1%
Polybrominated Diphenyl Ether (PBDE)	<0.1%

# **CABLE DESCRIPTION**

### 1 Conductor

Material Stranding Dia.(+/-0.01mm)

2 Insulation

Material Dia.(+/-0.05mm) Color Code

PVC 2.20 BK/WH

Stranded

0.21\*19

TC

## 3 Cabling

Order of the Pair Direction

### 4 Outer Sheath

Material Dia.(+/-0.2mm) Thickness(+/-0.05mm) See the Cross Section

**Right Hand Lay** 

PVC 5.7 0.65

# SHEATH MECHANICAL CHARACTERISTICS

### Reference Standard : UL 444

Test Ma	terial: PVC	
Defeue		× 12 0
Before	Tensile Strength (Mpa)	≥13.8
Aging	Elongation (%)	≥100
After	Tensile Strength (% of unaged)	≥85
Aging	Elongation (%)	≥50
Cold Be	nd (-20±°C×4hrs)	No crack
Operati	ng Temperature Range	-10~+60°C
Min Ber	nd Radius (Install)	8×D

Note: The specifications are subjected to change without prior notice.

Version 1.1-53-21-1921

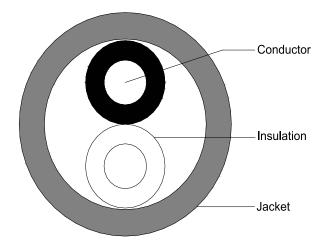


# **1-Pair 19 AWG Speaker Cable (LSZH)** NO: PA-19021L



R

**CROSS SECTION** 



# **CABLE DESCRIPTION**

1 Conductor

Materia Stranding Dia.(+/-0.01mm)

### Stranded 0.21\*19

TC

PVC

2.20

BK/WH

2 Insulation

Material Dia.(+/-0.05mm) Color Code

# 3 Cabling

Order of the Pair Direction

See the Cross Section **Right Hand Lay** 

# 4 Outer Sheath

Material Dia.(+/-0.2mm) Thickness(+/-0.05mm)

LSZH 5.7 0.65

# ELECTRICAL CHARACTERISTICS (20°C)

Test item	Units	Spec
> Max Conductor DC Resistance	Ω/km	≤28.3
> Dielectric Strength between Pairs	kV/5min	1.5

# **RoHS GUIDELINE**

Cadmium content (Cd)	< 0.01%
Lead content (Pb)	<0.1%
Mercury content (Hg)	<0.1%
Chromium (VI) content	<0.1%
Polybrominated Biphenyls (PBB)	<0.1%
Polybrominated Diphenyl Ether (PBDE)	<0.1%

# SHEATH FLAME CHARACTERISTICS

> Halogen content test	IEC 60754-1
> Smoke density	IEC 61034-2

# SHEATH MECHANICAL CHARACTERISTICS

### Reference Standard : UL 444

Test Material: LSZH			
Before	Tensile Strength (Mpa)	≥8.3	
Aging	Elongation (%)	≥100	
After	Tensile Strength (% of unaged)	≥75	
Aging	Elongation (%)	≥75	
Cold Be	nd (-20±°C×4hrs)	No crack	
Operati	ng Temperature Range	-20~+70°C	
Min Ber	nd Radius (Install)	8×D	

Note: The specifications are subjected to change without prior notice.

Version 1.1-53-21-1922



# Alarm Cable

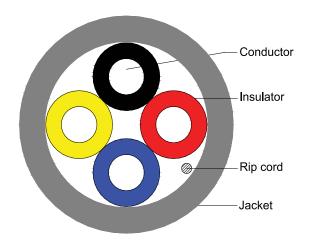




# 4 Cores Alarm Cable NO: PA-4702 (7739)



CROSS SECTION



# ELECTRICAL CHARACTERISTICS (20°C)

Test item	Units	Spec
> Max Conductor DC Resistance	Ω/km	≤9.09
> Dielectric Strength between Pairs	kV/min	1.5

# **RoHS GUIDELINE**

Cadmium content (Cd)	< 0.01%
Lead content (Pb)	<0.1%
Mercury content (Hg)	<0.1%
Chromium (VI) content	<0.1%
Polybrominated Biphenyls (PBB)	<0.1%
Polybrominated Diphenyl Ether (PBDE)	<0.1%

# **CABLE DESCRIPTION**

1 Conductor

Material Stranding Dia.(+/-0.01mm) TC Stranded 0.200\*7

PVC

1.20

YL/BK/RD/BL

### 2 Insulation

Material Dia.(+/-0.05mm) Color Code

3 Cabling

Order of the Pair Direction See the Cross Section Right Hand Lay

## 4 Outer Sheath

Material Dia.(+/-0.2mm) Thickness(+/-0.05mm) Rip cord PVC 3.6 0.45 200D\*3

# SHEATH MECHANICAL CHARACTERISTICS

Reference Standard : UL 444

Test Material: PVC			
D (		12.0	
Before	Tensile Strength (Mpa)	≥13.8	
Aging	Elongation (%)	≥100	
After	Tensile Strength (% of unaged)	≥85	
Aging	Elongation (%)	≥50	
Cold Bend (-20±°C×4hrs)		No crack	
Operating Temperature Range		-10~+60°C	
Min.Bend Radius (Install)		8×D	

Note: The specifications are subjected to change without prior notice.

Version 1.1-53-23-4702

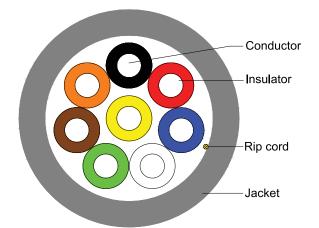


Alarm Cable

# 8 Cores Alarm Cable NO: PA-8702 (7741)



CROSS SECTION



# ELECTRICAL CHARACTERISTICS (20°C)

Test item	Units	Spec
> Max Conductor DC Resistance	Ω/km	≤9.09
> Dielectric Strength between Pairs	kV/5min	1.5

## **RoHS GUIDELINE**

Cadmium content (Cd)	< 0.01%
Lead content (Pb)	<0.1%
Mercury content (Hg)	<0.1%
Chromium (VI) content	<0.1%
Polybrominated Biphenyls (PBB)	<0.1%
Polybrominated Diphenyl Ether (PBDE)	<0.1%

# CABLE DESCRIPTION

### 1 Conductor

Material Stranding Dia.(+/-0.01mm)

### 2 Insulation

Material Dia.(+/-0.05mm) Color Code PVC 1.20 YL/BK/RD/BL/

TC

Stranded

0.200\*7

### 3 Cabling

Order of the Pair Direction

### 4 Outer Sheath

Material Dia.(+/-0.2mm) Thickness(+/-0.05mm) Rip cord YL/BK/RD/BL/ WH/GN/BR/OR

See the Cross Section Right Hand Lay

neath PVC

4.6 0.50 200D\*3

# SHEATH MECHANICAL CHARACTERISTICS

### Reference Standard : UL 444

Test Material: PVC			
D (		12.0	
Before	Tensile Strength (Mpa)	≥13.8	
Aging	Elongation (%)	≥100	
After	Tensile Strength (% of unaged)	≥85	
Aging	Elongation (%)	≥50	
Cold Bend (-20±°C×4hrs)		No crack	
Operati	-10~+60°C		
Min.Bend Radius (Install)		8×D	

Note: The specifications are subjected to change without prior notice.

Version 1.1-53-23-8702





# Cat.5e UTP Cable





# 4 Pairs Cat.5e UTP LAN Cable w/SWA NO: PA-2103K



Spec

≤93.8

≤2.5

≤1.0

≥5000

≤5.6

≤330

100±15

62.3

53.3

48.8

47.3

44.2

42.8

41.3

39.9

35.4

32.3

45

45

45

45

45

45

45

45

45

45

### CROSS SECTION ELECTRICAL CHARACTERISTICS (20°C) Reference Standard : TIA/EIA-568-B.2 & ISO/IEC 11801 Test item Units Pairs > Max Conductor DC Resistance Ω/km > Unbalance of Pair DC Resistance 96 SWA > Dielectric Strength between Pairs kV/min > Min Insulation Resistance MQ-km > Max Pair Mutual Capacitance nF/100m pF/100m > Max Pair Capacitance Unbalance Inner Jacket > Impedance (1 to 100MHz) 0 **Outer Jacket** Frequency Min RL Max IL Min NEXT Min PSNEXT CABLE DESCRIPTION 20.0 65.3 1 2.0 4 23.0 4.1 56.3 1 Conductor 8 24.5 5.8 51.8 10 25.0 6.5 50.3 Material BC - Bare Copper 25.0 8.2 47.3 16 Stranding Solid 20 25.0 9.3 45.8 24AWG Wire Gage 25 24.3 10.4 44.3 Dia.(+/-0.005mm) 0.495 31.25 23.6 11.7 42.9 62.5 21.5 17.0 38.4 2 Insulation 100 20.1 22.0 35.3 Material HDPE Dia.(+/-0.05mm) 0.9 Max White/Blue & Blue Color Code Frequency Max Delay ELFEXT PSELFEXT Delay skew White/Orange & Orange (ns/100m) (MHz) (ns/100m) White/Green & Green White/Brown & Brown 63.8 570 60.8 1 3 Paired 48.8 4 51.8 552 Direction Right Hand Lay 8 45.7 42.7 547 Length of Lay < 38 mm 10 43.8 40.8 545 16 39.7 36.7 543 4 Cabling 20 37.8 34.8 542 Order of the Pair 25 35.8 32.8 541 See the Cross Section Direction 31.25 33.9 30.9 540 **Right Hand Lay** 62.5 27.9 24.9 539 5 Sheath Inner Outer 100 20.8 23.8 538 Inner Material PVC LDPE Inner Thickness(+/-0.05mm) 0.54 1.10 SHEATH MECHANICAL CHARACTERISTICS Inner Dia.(+/-0.2mm) 8.9 5.0 SWA 0.8\*22 Armoured Reference Standard : UL 444 Test Material: LDPE **RoHS GUIDELINE**

Before

Aging

After

Aging

Tensile Strength (Mpa)

Tensile Strength (% of unaged)

Elongation (%)

Elongation (%)

Cold Bend (-20±°C×4hrs)

**Operating Temperature Range** 

Min Bending Radius (Install)

### Cadmium content (Cd) < 0.01% Lead content (Pb) < 0.1% Mercury content (Hg) < 0.1% Chromium (VI) content < 0.196Polybrominated Biphenyls (PBB) < 0.1% Polybrominated Diphenyl Ether (PBDE) < 0.1%

Note: The specifications are subjected to change without prior notice.



≥9.7

≥350

≥75

≥75

12×D

No crack

-20~+70°C

專 業 電 子 工 程 產 品 代 理

Cat.5e UTP Cable

# 4 Pairs Cat.5e UTP LAN Cable w/SWA NO: PA-2103K



### CROSS SECTION Reference Standard : TIA/EIA-568-B.2 & ISO/IEC 11801 Test item Pairs > Max Conductor DC Resistance > Unbalance of Pair DC Resistance SWA > Dielectric Strength between Pairs > Min Insulation Resistance > Max Pair Mutual Capacitance > Max Pair Capacitance Unbalance Inner Jacket > Impedance (1 to 100MHz) 0 Outer Jacket CABLE DESCRIPTION 1 Conductor Material BC - Bare Copper Stranding Solid Wire Gage 24AWG Dia.(+/-0.005mm) 0.495 2 Insulation Material HDPE Dia.(+/-0.05mm) 0.9 Color Code White/Blue & Blue White/Orange & Orange White/Green & Green White/Brown & Brown 3 Paired Direction **Right Hand Lay** Length of Lay < 38 mm 4 Cabling Order of the Pair See the Cross Section Direction **Right Hand Lay** 5 Sheath Inner Outer PVC LDPE Inner Material Inner Thickness(+/-0.05mm) 0.54 1.10 Inner Dia.(+/-0.2mm) 8.9 5.0 Armoured SWA 0.8\*22 Reference Standard: UL 444 Test Material: LDPE **RoHS GUIDELINE**

Cadmium content (Cd)	< 0.01%
Lead content (Pb)	< 0.1%
Mercury content (Hg)	< 0.1%
Chromium (VI) content	< 0.1%
Polybrominated Biphenyls (PBB)	< 0.1%
Polybrominated Diphenyl Ether (PBDE)	< 0.1%

Note: The specifications are subjected to change without prior notice.

# ELECTRICAL CHARACTERISTICS (20°C)

### Units Spec Ω/km ≤93.8 96 ≤2.5 kV/min ≤1.0 MQ-km ≥5000 nF/100m ≤5.6 pF/100m ≤330 100±15

Frequency (MHz)	Min RL (dB)	Max IL (dB/100m)	Min NEXT (dB)	Min PSNEXT (dB)
1	20.0	2.0	65.3	62.3
4	23.0	4.1	56.3	53.3
8	24.5	5.8	51.8	48.8
10	25.0	6.5	50.3	47.3
16	25.0	8.2	47.3	44.2
20	25.0	9.3	45.8	42.8
25	24.3	10.4	44.3	41.3
31.25	23.6	11.7	42.9	39.9
62.5	21.5	17.0	38.4	35.4
100	20.1	22.0	35.3	32.3
Frequency (MHz)	Min ELFEXT (dB)	Min PSELFEXT (dB)	Max Delay (ns/100m)	Max Delay skew (ns/100m)
	ELFEXT	PSELFEXT		Delay skew
(MHz)	ELFEXT (dB)	PSELFEXT (dB)	(ns/100m)	Delay skew (ns/100m)
(MHz)	ELFEXT (dB) 63.8	PSELFEXT (dB) 60.8	(ns/100m) 570	Delay skew (ns/100m) 45
(MHz) 1 4	ELFEXT (dB) 63.8 51.8	PSELFEXT (dB) 60.8 48.8	(ns/100m) 570 552	Delay skew (ns/100m) 45 45
(MHz) 1 4 8	ELFEXT (dB) 63.8 51.8 45.7	PSELFEXT (dB) 60.8 48.8 42.7	(ns/100m) 570 552 547	Delay skew (ns/100m) 45 45 45
(MHz) 1 4 8 10	ELFEXT (dB) 63.8 51.8 45.7 43.8	PSELFEXT (dB) 60.8 48.8 42.7 40.8	(ns/100m) 570 552 547 545	Delay skew (ns/100m) 45 45 45 45 45
(MHz) 1 4 8 10 16 20 25	ELFEXT (dB) 63.8 51.8 45.7 43.8 39.7	PSELFEXT (dB) 60.8 48.8 42.7 40.8 36.7	(ns/100m) 570 552 547 545 543	Delay skew (ns/100m) 45 45 45 45 45 45
(MHz) 1 4 8 10 16 20 25 31.25	ELFEXT (dB) 63.8 51.8 45.7 43.8 39.7 37.8 35.8 33.9	PSELFEXT (dB) 60.8 48.8 42.7 40.8 36.7 34.8 32.8 30.9	(ns/100m) 570 552 547 545 543 542 541 540	Delay skew (ns/100m) 45 45 45 45 45 45 45 45 45 45 45
(MHz) 1 4 8 10 16 20 25	ELFEXT (dB) 63.8 51.8 45.7 43.8 39.7 37.8 35.8	PSELFEXT (dB) 60.8 48.8 42.7 40.8 36.7 34.8 32.8	(ns/100m) 570 552 547 545 543 542 541	Delay skew (ns/100m) 45 45 45 45 45 45 45 45 45

# SHEATH MECHANICAL CHARACTERISTICS

Before	Tensile Strength (Mpa)	≥9.7
Aging	Elongation (%)	≥350
After	Tensile Strength (% of unaged)	≥75
Aging	Elongation (%)	≥75
Cold Bend (	No crack	
Operating T	-20~+70°C	
Min Bendin	12×D	

Version 1.1-53-25-2105









華輝無綫電行有限公司 Welfare Electronic Component Ltd.

寫字樓 Main office: 香港九龍深水埗長沙灣道199號長樂大廈1樓全層 1/F, Cheong Lok Building, 199 Cheung Sha Wan Road, Sham Shui Po, Kowloon, Hong Kong ③ 客戶服務熱線
 (852) 3182 0888

Fax: (852) 3182 0808 E-mail: cs@wecl.com.hk

門市 Retail Shop: 香港九龍深水埗鴨寮街 201號明珠樓地下及1樓全層 G/F & 1/F, Ming Chu Building, 201 Apliu Street, Sham Shui Po, Kowloon, Hong Kong