



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.

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 |
| ■ Control cable | ■ Armour cable |
| ■ Speaker cable | ■ LSZH cable |
| ■ Alarm 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.

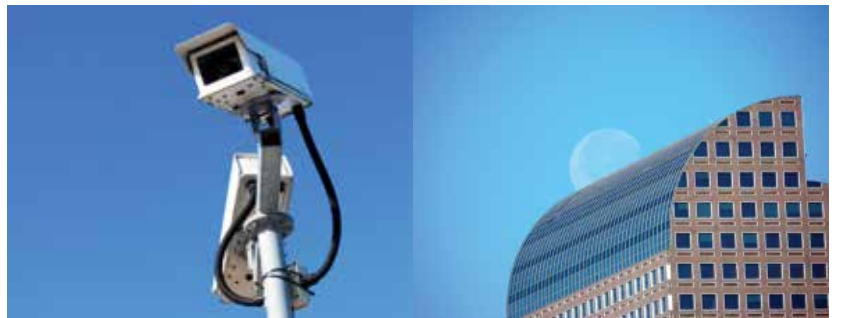
Contact us at **(852) 3182 0888** for more details.

**I
Z
D
E
X**

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



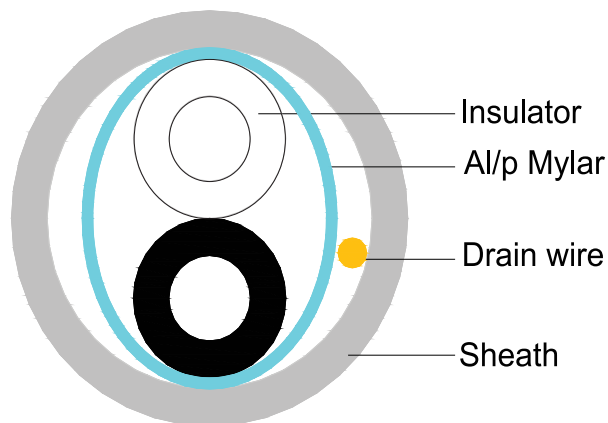
Control Cable



1-Pair 18AWG Shielded Control Cable

NO: PA-8760 (7408)

CROSS SECTION



CABLE DESCRIPTION

1 Conductor

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

2 Insulation

Material	HDPE
Dia.(+/-0.05mm)	2.16
Color Code	Clear/Black

3 Cabling

Order of the Pair	See the Cross Section
Direction	Right Hand Lay
Drain Wire	TC 0.25*10
Shielding	AL/P

4 Outer Sheath

Material	PVC
Dia.(+/-0.2mm)	5.6
Thickness(+/-0.05mm)	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

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 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
Operating Temperature Range		-10~+60°C
Min Bend Radius (Install)		8×D

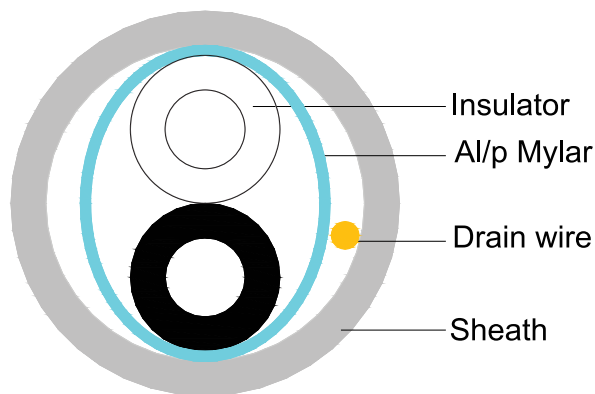
Note: The specifications are subjected to change without prior notice.

Version 1.1-53-23-8760

1-Pair 18AWG Shielded Control Cable (LSZH)

NO: PA-8760L (7408F)

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

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

2 Insulation

Material	HDPE
Dia.(+/-0.05mm)	2.16
Color Code	Clear/Black

3 Cabling

Order of the Pair	See the Cross Section
Direction	Right Hand Lay
Drain Wire	TC 0.25*10
Shielding	AL/P

4 Outer Sheath

Material	LSZH
Dia.(+/-0.2mm)	5.6
Thickness(+/-0.05mm)	0.72

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 Bend (-20±°C×4hrs)		No crack
Operating Temperature Range		-20~+70°C
Min Bend Radius (Install)		8×D

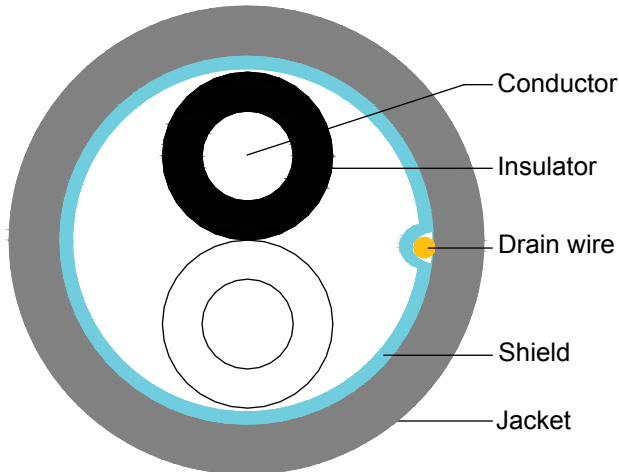
Note: The specifications are subjected to change without prior notice.

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

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

2 Insulation

Material	HDPE
Dia.(+/-0.05mm)	1.58
Color Code	BK/CLEAR

3 Cabling

Order of the Pair	See the Cross Section
Direction	Right Hand Lay
Drain Wire	TC 0.25*7
Shielding	AL/P

4 Outer Sheath

Material	PVC
Dia.(+/-0.2mm)	4.5
Thickness(+/-0.05mm)	0.65

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
Operating Temperature Range		-10~+60°C
Min Bend Radius (Install)		8×D

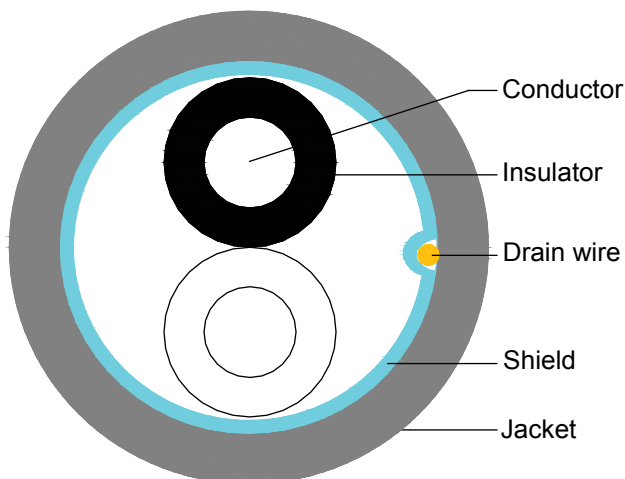
Note: The specifications are subjected to change without prior notice.

Version 1.1-53-23-8761

1-Pair 22AWG Shielded Control Cable (LSZH)

NO: PA-8761L (7609F)

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

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

2 Insulation

Material	HDPE
Dia.(+/-0.05mm)	1.58
Color Code	BK/CLEAR

3 Cabling

Order of the Pair	See the Cross Section
Direction	Right Hand Lay
Drain Wire	TC 0.25*7
Shielding	AL/P

4 Outer Sheath

Material	LSZH
Dia.(+/-0.2mm)	4.5
Thickness(+/-0.05mm)	0.65

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 Bend (-20±°C×4hrs)		No crack
Operating Temperature Range		-20~+70°C
Min Bend Radius (Install)		8×D

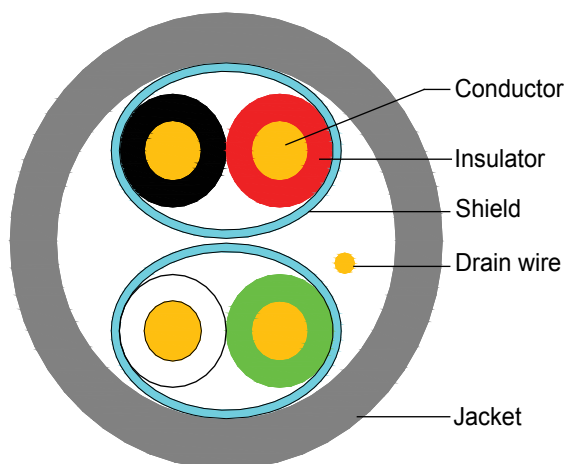
Note: The specifications are subjected to change without prior notice.

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	$\text{kV}/5\text{min}$	1.5
> Rated Voltage	V	300
> Min Insulation Resistance	$\text{M}\Omega \cdot \text{km}$	≥ 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	TC
Stranding	Stranded
Dia.(+/-0.01mm)	0.250*7
AWG	22

2 Insulation

Material	HDPE
Dia.(+/-0.05mm)	1.16
Color Code	BK/RD&GN/WH

3 Cabling

Order of the Pair	See the Cross Section
Direction	Right Hand Lay
Drain Wire	TC 0.2*7
Shielding	AL/P

4 Outer Sheath

Material	PVC
Dia.(+/-0.2mm)	4.1
Thickness(+/-0.05mm)	0.48

SHEATH MECHANICAL CHARACTERISTICS

Reference Standard : UL 444

Test Material: PVC

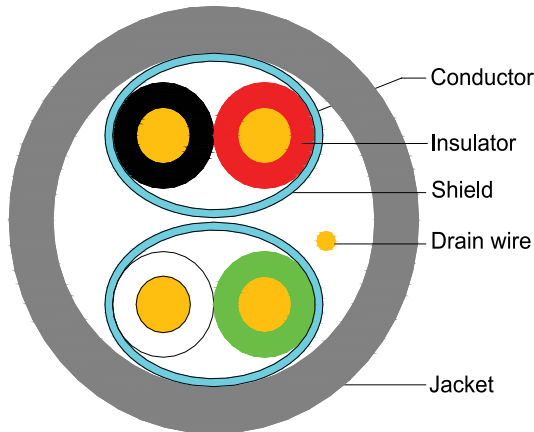
Before	Tensile Strength(Mpa)	≥ 13.8
Aging	Elongation(%)	≥ 100
After	Tensile Strength (% of unaged)	≥ 85
Aging	Elongation(%)	≥ 50
	Cold Bend(-20 \pm °C×4hrs)	No crack
	Operating Temperature Range	-10~+60°C
	Min Bend Radius(Install)	8×D

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

Version 1.1-53-23-8723

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

CROSS SECTION



CABLE DESCRIPTION

1 Conductor

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

2 Insulation

Material	HDPE
Dia.(+/-0.05mm)	1.16
Color Code	BK/RD&GN/WH

3 Cabling

Order of the Pair	See the Cross Section
Direction	Right Hand Lay
Drain Wire	TC 0.2*7
Shielding	AL/P

4 Outer Sheath

Material	LSZH
Dia.(+/-0.2mm)	4.1
Thickness(+/-0.05mm)	0.48

ELECTRICAL CHARACTERISTICS (20°C)

Test item	Units	Spec
> Max Conductor DC Resistance	Ω/km	≤ 57.4
> Dielectric Strength between Pairs	$\text{kV}/5\text{min}$	1.5
> Rated Voltage	V	300
> Min Insulation Resistance	$\text{M}\Omega\cdot\text{km}$	≥ 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)	$< 0.1\%$

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 Bend(-20 \pm °C×4hrs)		No crack
Operating Temperature Range		-20~+70°C
Min Bend Radius(Install)		8×D

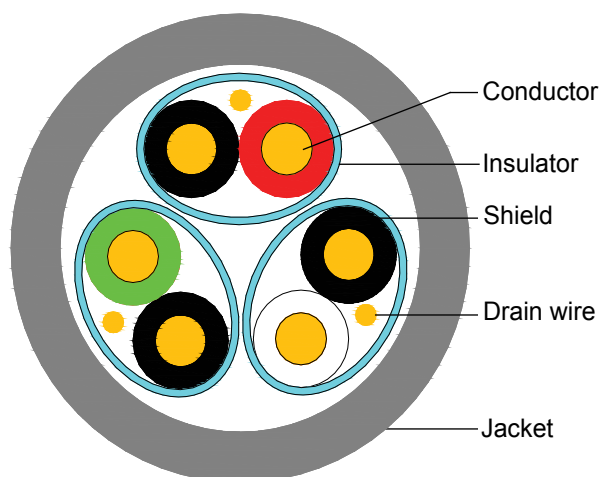
Note: The specifications are subjected to change without prior notice.

Version 1.1-53-23-9723

3-Pairs 22AWG Individually Shielded Control Cable

NO: PA-8777 (7603)

CROSS SECTION



CABLE DESCRIPTION

1 Conductor

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

2 Insulation

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

3 Cabling

Order of the Pair	See the Cross Section
Direction	Right Hand Lay
Drain Wire	TC 0.25*7
Shielding	AL/P

4 Outer Sheath

Material	PVC
Dia.(+/-0.2mm)	6.9
Thickness(+/-0.05mm)	0.70

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%

SHEATH MECHANICAL CHARACTERISTICS

Reference Standard : UL 444

Test Material: PVC

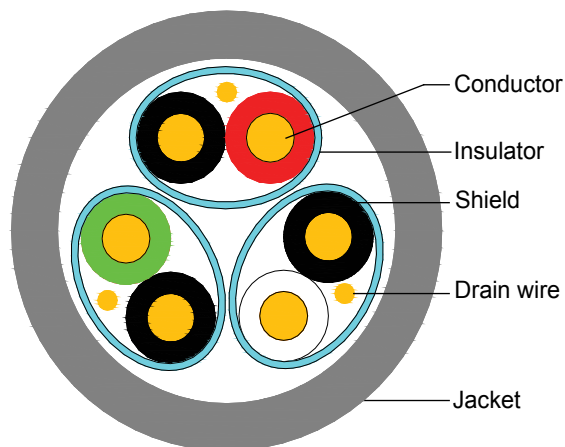
Before	Tensile Strength(Mpa)	≥13.8
Aging	Elongation(%)	≥100
After	Tensile Strength (% of unaged)	≥85
Aging	Elongation(%)	≥50
Cold Bend(-20±°C×4hrs)		No crack
Operating Temperature Range		-10~+60°C
Min Bend Radius(Install)		8×D

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

Version 1.1-53-23-8777

3-Pairs 22AWG Individually Shielded Control Cable NO: PA-8777L

CROSS SECTION



CABLE DESCRIPTION

1 Conductor

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

2 Insulation

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

3 Cabling

Order of the Pair	See the Cross Section
Direction	Right Hand Lay
Drain Wire	TC 0.25*7
Shielding	AL/P

4 Outer Sheath

Material	LSZH
Dia.(+/-0.2mm)	6.9
Thickness(+/-0.05mm)	0.70

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%

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 Bend(-20±°C×4hrs)		No crack
Operating Temperature Range		-20~+70°C
Min Bend Radius(Install)		8×D

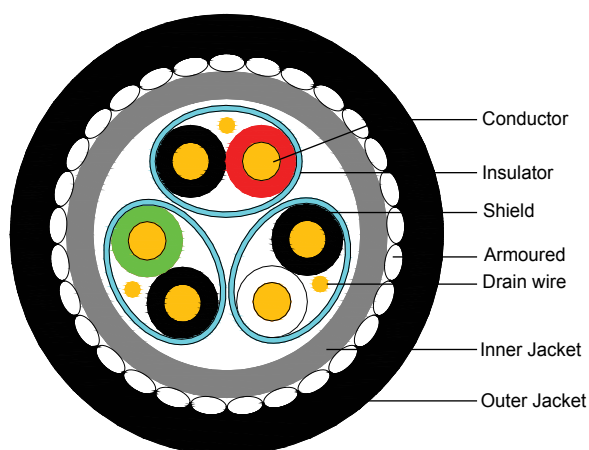
Note: The specifications are subjected to change without prior notice.

Version 1.1-53-23-9777

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

2 Insulation

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

3 Cabling

Order of the Pair	See the Cross Section
Direction	Right Hand Lay
Drain Wire	TC 0.25*7
Shielding	AL/P

4 Outer Sheath

	Inner	Outer
Material	PVC	LDPE
Dia.(+/-0.2mm)	6.9	10.7
Thickness(+/-0.05mm)	0.70	1.10
Armoured	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 Bend(-20±°C×4hrs)		No crack
Operating Temperature Range		-40~+60°C
Min.Bend Radius(Install)		12×D

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

Version 1.1-53-23-0777

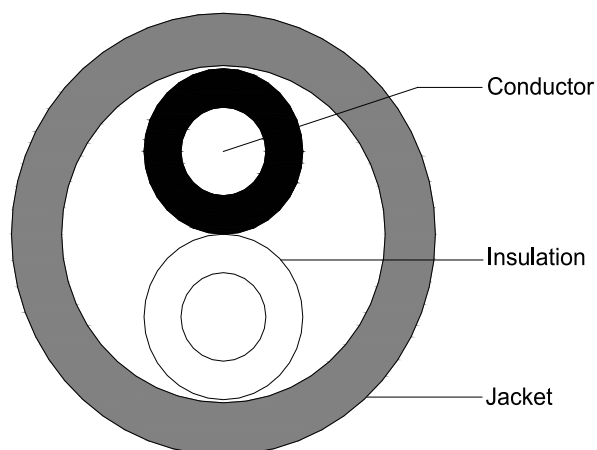
Speaker Cable



1-Pair 19 AWG Speaker Cable

NO: PA-1902 (7519)

CROSS SECTION



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%

CABLE DESCRIPTION

1 Conductor

Material	Bare Copper
Stranding	Stranded
Dia.(+/-0.01mm)	0.21*19

2 Insulation

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

3 Cabling

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

4 Outer Sheath

Material	PVC
Dia.(+/-0.2mm)	5.7
Thickness(+/-0.05mm)	0.65

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
Operating Temperature Range		-10~+60°C
Min Bend Radius (Install)		8×D

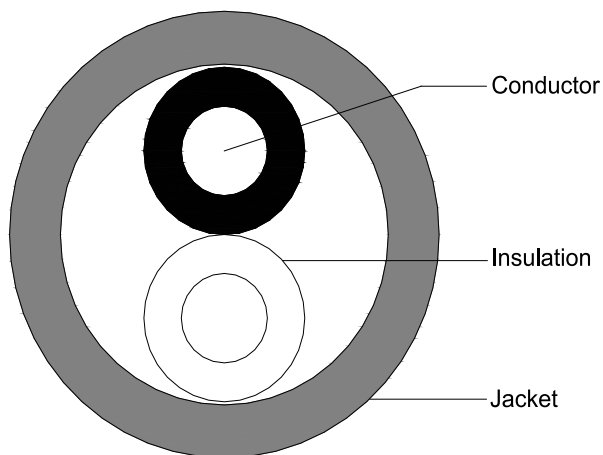
Note: The specifications are subjected to change without prior notice.

Version 1.1-53-21-1902

1-Pair 19 AWG Speaker Cable (LSZH)

NO: PA-1902L

CROSS SECTION



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%

CABLE DESCRIPTION

1 Conductor

Material	Bare Copper
Stranding	Stranded
Dia.(+/-0.01mm)	0.21*19

2 Insulation

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

3 Cabling

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

4 Outer Sheath

Material	LSZH
Dia.(+/-0.2mm)	5.7
Thickness(+/-0.05mm)	0.65

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 Bend (-20±°C×4hrs)		No crack
Operating Temperature Range		-20~+70°C
Min Bend Radius (Install)		8×D

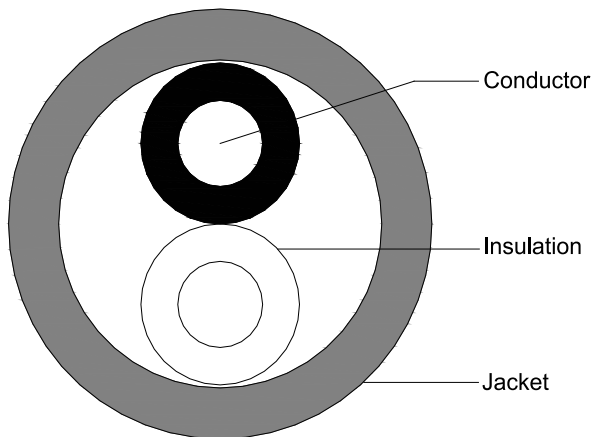
Note: The specifications are subjected to change without prior notice.

Version 1.1-53-21-1903

1-Pair 19 AWG Speaker Cable

NO: PA-19021

CROSS SECTION



CABLE DESCRIPTION

1 Conductor

Material	TC
Stranding	Stranded
Dia.(+/-0.01mm)	0.21*19

2 Insulation

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

3 Cabling

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

4 Outer Sheath

Material	PVC
Dia.(+/-0.2mm)	5.7
Thickness(+/-0.05mm)	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 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
Operating Temperature Range		-10~+60°C
Min Bend Radius (Install)		8×D

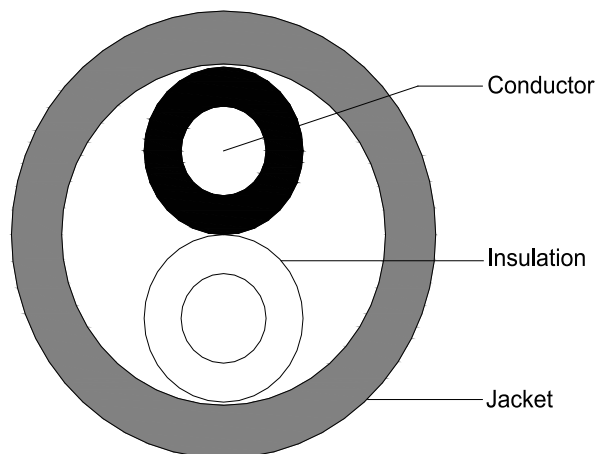
Note: The specifications are subjected to change without prior notice.

Version 1.1-53-21-1921

1-Pair 19 AWG Speaker Cable (LSZH)

NO: PA-19021L

CROSS SECTION



CABLE DESCRIPTION

1 Conductor

Material	TC
Stranding	Stranded
Dia.(+/-0.01mm)	0.21*19

2 Insulation

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

3 Cabling

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

4 Outer Sheath

Material	LSZH
Dia.(+/-0.2mm)	5.7
Thickness(+/-0.05mm)	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 Bend (-20±°C×4hrs)		No crack
Operating Temperature Range		-20~+70°C
Min Bend Radius (Install)		8×D

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

Version 1.1-53-21-1922

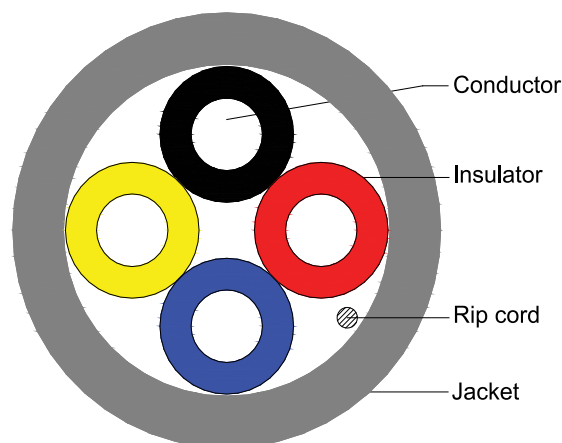
Alarm Cable



4 Cores Alarm Cable

NO: PA-4702 (7739)

CROSS SECTION



CABLE DESCRIPTION

1 Conductor

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

2 Insulation

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

3 Cabling

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

4 Outer Sheath

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

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%

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
Operating Temperature Range		-10~+60°C
Min.Bend Radius (Install)		8×D

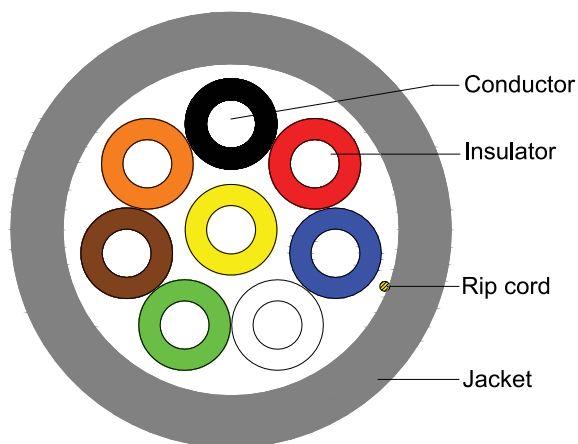
Note: The specifications are subjected to change without prior notice.

Version 1.1-53-23-4702

8 Cores Alarm Cable

NO: PA-8702 (7741)

CROSS SECTION



CABLE DESCRIPTION

1 Conductor

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

2 Insulation

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

3 Cabling

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

4 Outer Sheath

Material	PVC
Dia.(+/-0.2mm)	4.6
Thickness(+/-0.05mm)	0.50
Rip cord	200D*3

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%

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 \pm °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 1.1-53-23-8702

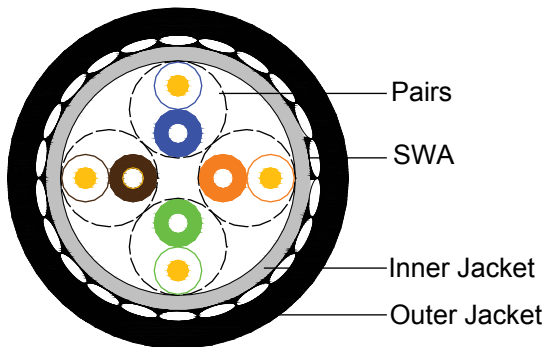
Cat.5e UTP Cable



4 Pairs Cat.5e UTP LAN Cable w/SWA

NO: PA-2103K

CROSS SECTION



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
Inner Material	PVC	LDPE
Inner Thickness(+/-0.05mm)	0.54	1.10
Inner Dia.(+/-0.2mm)	5.0	8.9
Armoured	SWA 0.8*22	

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%

ELECTRICAL CHARACTERISTICS (20°C)

Reference Standard : TIA/EIA-568-B.2 & ISO/IEC 11801

Test item	Units	Spec
> Max Conductor DC Resistance	Ω/km	≤93.8
> Unbalance of Pair DC Resistance	%	≤2.5
> Dielectric Strength between Pairs	kV/min	≤1.0
> Min Insulation Resistance	MΩ·km	≥5000
> Max Pair Mutual Capacitance	nF/100m	≤5.6
> Max Pair Capacitance Unbalance	pF/100m	≤330
> Impedance (1 to 100MHz)	Ω	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)
1	63.8	60.8	570	45
4	51.8	48.8	552	45
8	45.7	42.7	547	45
10	43.8	40.8	545	45
16	39.7	36.7	543	45
20	37.8	34.8	542	45
25	35.8	32.8	541	45
31.25	33.9	30.9	540	45
62.5	27.9	24.9	539	45
100	23.8	20.8	538	45

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 Bend (-20±°C×4hrs)		No crack
Operating Temperature Range		-20~+70°C
Min Bending Radius (Install)		12xD

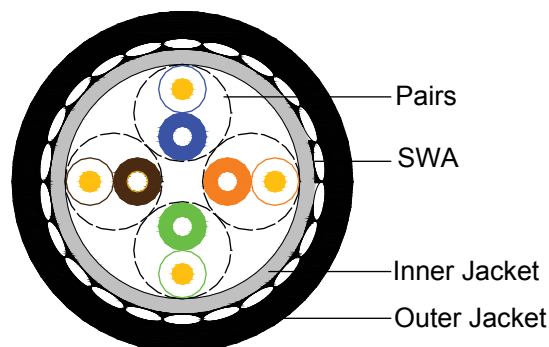
Note: The specifications are subjected to change without prior notice.

Version 1.1-53-25-2103

4 Pairs Cat.5e UTP LAN Cable w/SWA

NO: PA-2103K

CROSS SECTION



ELECTRICAL CHARACTERISTICS (20°C)

Reference Standard : TIA/EIA-568-B.2 & ISO/IEC 11801

Test item	Units	Spec
> Max Conductor DC Resistance	Ω/km	≤93.8
> Unbalance of Pair DC Resistance	%	≤2.5
> Dielectric Strength between Pairs	kV/min	≤1.0
> Min Insulation Resistance	MΩ·km	≥5000
> Max Pair Mutual Capacitance	nF/100m	≤5.6
> Max Pair Capacitance Unbalance	pF/100m	≤330
> Impedance (1 to 100MHz)	Ω	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)
1	63.8	60.8	570	45
4	51.8	48.8	552	45
8	45.7	42.7	547	45
10	43.8	40.8	545	45
16	39.7	36.7	543	45
20	37.8	34.8	542	45
25	35.8	32.8	541	45
31.25	33.9	30.9	540	45
62.5	27.9	24.9	539	45
100	23.8	20.8	538	45

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
Inner Material	PVC	LDPE
Inner Thickness(+/-0.05mm)	0.54	1.10
Inner Dia.(+/-0.2mm)	5.0	8.9
Armoured	SWA 0.8*22	

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 Bend (-20±°Cx4hrs)		No crack
Operating Temperature Range		-20~+70°C
Min Bending Radius (Install)		12xD

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.

Version 1.1-53-25-2105



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