

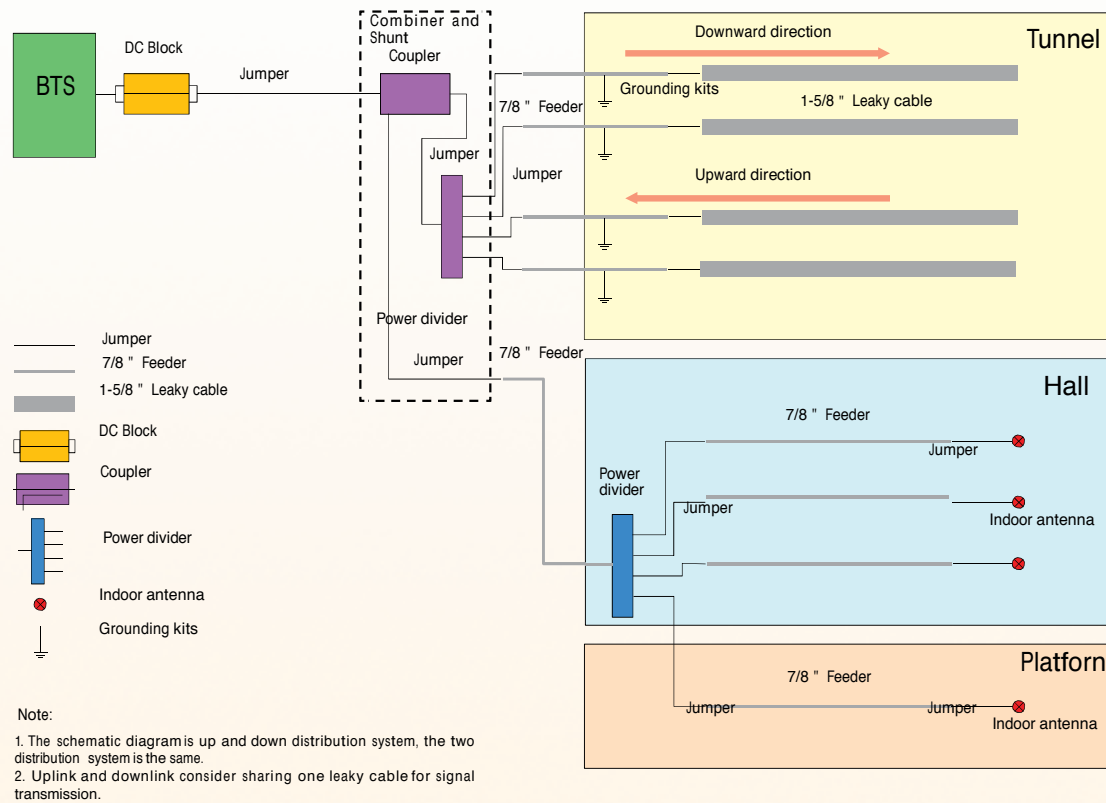
Type of Leaky Coaxial Cables for Communication Base Station

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- HLRCTSHYZ-50-22 (7/8")
- HLRCTSMYZ-50-22 (7/8")
- HLRCTSLYZ-50-32 (1-1/4")
- HLRCTCMYZ-50-32 (1-1/4")
- HLRCTSHYZ-50-32 (1-1/4")
- HLRHTSMYZ-50-42 (1-5/8")
- HLRHTCHYZ-50-42 (1-5/8")
- HLCTAYZ-50-22-C1 (7/8") HLCTAYZ-
50-22-C2 (7/8") HLCTAYZ-50-32-C1
(1-1/4")
HLCTAYZ-50-32-C2 (1-1/4")

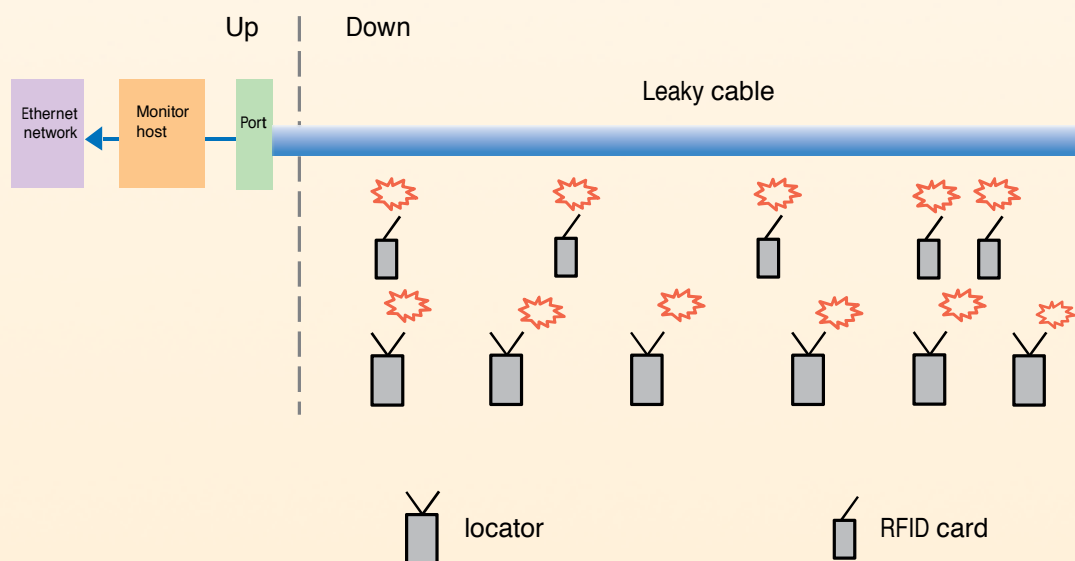


Leaky cable application system

Wireless communication system in subway



Wireless communication system in mine



HLRCTSHYZ-50-22 (7/8")

• The product characterized long electromagnetic radiation distance and is suitable for the coverage of enclosed areas, such as rail tunnels, high speed railway tunnels, underground parking and so on. It has strong radiation performance and uniform fluctuation in narrow band.

• Best working frequency range: 800~1000 & 1700~2400MHz

Performances



• Structure

Cable type	Radiating
Size	7/8"
Inner conductor material / OD	Copper tube / 9.0 mm
Insulating material	Physical foamed polyethylene dielectric
Outer conductor material / OD	Overlapping copper foil / 23.0 mm
Jacket material	LSOH polyolefin
Diameter over Jacket / color	27.0 mm / black
Weight	490 kg/km

• Mechanical characteristics

Tensile force	>2000 N
Minimum bending radius, single bend	350 mm
Indication of slot alignment	Guides opposite to slots
Minimum distance to wall	100 mm
Recommended clamp spacing	0.9 m
Installation temperature	-25~+60 °C
Operation temperature	-40~+85 °C
Storage temperature	-70~+85 °C

• Electrical characteristics

Cut-off frequency	1.3~1.4GHz & Its multitles
Polarization	Vertical
VSWR	1.3
Impedance	50±2 Ω
Encircle DC resistance	4.5 Ω/km
Insulation dielectric strength	15000 V (DC, 1min)
Minimum insulation resistance	5000 MΩ·km
Jacket spark test voltage	8000 V (AC)
Peak power	91 kW
Velocity	89 %

Frequency (MHz)	Attenuation (dB/100m, 20 °C)	Coupling Loss (50% / 95%, 2m, dB)
150	1.58	70/82
450	2.97	73/81
800	4.19	69/75
900	4.54	69/77
1800	8.69	65/72
2200	11.30	66/72
2400	13.10	64/70

Range: Coupling Loss: ±5 dB, Attenuation: ±10 %

Notes:

Coupling Loss & Attenuation is tested by the free-space method according to IEC 61196-4 Standards.

HLRCTSMYZ-50-22 (7/8")

• The product characterized long electromagnetic radiation distance and is suitable for the coverage of enclosed areas such as rail tunnels, high speed railway tunnels, underground parking and so on. It has strong radiation performance and uniform fluctuation in narrow band.

• Best working frequency range: 150~500 & 600~1000MHz

Performances

• Structure

Cable type	Radiating
Size	7/8"
Inner conductor material / OD	Copper tube / 9.0 mm
Insulating material	Physical foamed polyethylene dielectric
Outer conductor material / OD	Overlapping copper foil / 23.0 mm
Jacket material	LSOH polyolefin
Diameter over Jacket / color	27.0 mm / black
Weight	490 kg/km

• Mechanical characteristics

Tensile force	>2000 N
Minimum bending radius, single bend	350 mm
Indication of slot alignment	Guides opposite to slots
Minimum distance to wall	100 mm
Recommended clamp spacing	0.9 m
Installation temperature	-25~+60 °C
Operation temperature	-40~+85 °C
Storage temperature	-70~+85 °C

• Electrical characteristics

Cut-off frequency	530~590 MHz & Its multitles
Polarization	Vertical
VSWR	1.3
Impedance	50±2 Ω
Encircle DC resistance	4.5 Ω/km
Insulation dielectric strength	15000 V (DC, 1min)
Minimum insulation resistance	5000 MΩ·km
Jacket spark test voltage	8000 V (AC)
Peak power	91 kW
Velocity	89 %

Frequency (MHz)	Attenuation (dB/100m, 20 °C)	Coupling Loss (50% / 95%, 2m, dB)
150	1.56	62/74
350	2.76	59/68
450	3.10	62/70
800	4.40	62/71
900	4.94	61/71

Range: Coupling Loss: ±5 dB, Attenuation: ±10 %



Notes:

Coupling Loss & Attenuation is tested by the free-space method according to IEC 61196-4 Standards.

HLRCTSLYZ-50-32 (1-1/4")

● The product characterized long electromagnetic radiation distance and is suitable for the coverage of enclosed areas, such as rail tunnels, high speed railway tunnels, underground parking and so on. It has strong radiation performance and uniform fluctuation in narrow band.

● Best working frequency range: 300~500MHz

Performances

● Structure

Cable type	Radiating
Size	1-1/4"
Inner conductor material / OD	Copper tube / 13.1 mm
Insulating material	Physical foamed polyethylene dielectric
Outer conductor material / OD	Overlapping copper foil / 33.6 mm
Jacket material	LSOH polyolefin
Diameter over Jacket / color	38.0 mm / black
Weight	800 kg/km

● Mechanical characteristics

Tensile force	>2300 N
Minimum bending radius, single bend	500 mm
Indication of slot alignment	Guides opposite to slots
Minimum distance to wall	100 mm
Recommended clamp spacing	1~1.2 m
Installation temperature	-25~+60℃
Operation temperature	-40~+85℃
Storage temperature	-70~+85℃

● Electrical characteristics

Cut-off frequency	Non stop bands in working frequency
Polarization	Vertical
VSWR	1.3
Impedance	50±2 Ω
Encircle DC resistance	3 Ω/km
Insulation dielectric strength	15000 V (DC, 1min)
Minimum insulation resistance	5000 MΩ·km
Jacket spark test voltage	8000 V (AC)
Peak power	200 kW
Velocity	88 %

Frequency (MHz)	Attenuation (dB/100m, 20℃)	Coupling Loss (50% / 95%, 2m, dB)
350	1.93	66/76
450	2.21	67/77

Range: Coupling Loss: ±5 dB, Attenuation: ±10 %



Notes:

Coupling Loss & Attenuation is tested by the free-space method according to IEC 61196-4 Standards.

MYZ-50-32 (1-1/4")

- The product characterized long electromagnetic radiation distance and is suitable for the coverage of enclosed areas, such as rail tunnels, high speed railway tunnels, underground parking and so on. It has strong radiation performance and uniform fluctuation in narrow band.
- Best working frequency range: 300~600 & 670~950MHz

Performances

• Structure

Cable type	Radiating
Size	1-1/4"
Inner conductor material / OD	Copper tube / 13.1 mm
Insulating material	Physical foamed polyethylene dielectric
Outer conductor material / OD	Overlapping corrugated copper foil / 33.6 mm
Jacket material	LSOH polyolefin
Diameter over Jacket / color	38.0 mm / black
Weight	800 kg/km

• Mechanical characteristics

Tensile force	>2300 N
Minimum bending radius, single bend	500 mm
Indication of slot alignment	Guides opposite to slots
Minimum distance to wall	100 mm
Recommended clamp spacing	1~1.2 m
Installation temperature	-25~+60℃
Operation temperature	-40~+85℃
Storage temperature	-70~+85℃

• Electrical characteristics

Cut-off frequency	610~650 MHz
Polarization	Vertical
VSWR	1.3
Impedance	50±2 Ω
Encircle DC resistance	3 Ω/km
Insulation dielectric strength	15000 V (DC, 1min)
Minimum insulation resistance	5000 MΩ·km
Jacket spark test voltage	8000 V (AC)
Peak power	200 kW
Velocity	88 %

Frequency (MHz)	Attenuation (dB/100m, 20℃)	Coupling Loss (50% / 95%, 2m, dB)
350	1.70	75/83
450	2.00	73/79
800	2.90	66/68
900	3.10	64/68

Range: Coupling Loss: ±5 dB, Attenuation: ±10 %



Notes:

Coupling Loss & Attenuation is tested by the free-space method according to IEC 61196-4 Standards.

MYZ-50-42 (1-5/8")

- The product characterized long electromagnetic radiation distance and is suitable for the coverage of enclosed areas, such as rail tunnels, high speed railway tunnels underground parking and so on. It has strong radiation performance and uniform fluctuation in narrow band.
- Best working frequency range: 300~900 MHz

Performances

• Structure

Cable type	Radiating
Size	1-5/8"
Inner conductor material / OD	Helical copper tube / 17.3 mm
Insulating material	Physical foamed polyethylene dielectric
Outer conductor material / OD	Overlapping copper foil / 43.5 mm
Jacket material	LSOH polyolefin
Diameter over Jacket / color	48.0 mm / black
Weight	1000 kg/km

• Mechanical characteristics

Tensile force	>3000 N
Minimum bending radius, single bend	700 mm
Indication of slot alignment	Guides opposite to slots
Minimum distance to wall	100 mm
Recommended clamp spacing	1~1.5 m
Installation temperature	-25~+60 °C
Operation temperature	-40~+85 °C
Storage temperature	-70~+85 °C

• Electrical characteristics

Cut-off frequency	510~530MHz & Its multiples
Polarization	Vertical
VSWR	1.3
Impedance	50±2 Ω
Encircle DC resistance	3 Ω/km
Insulation dielectric strength	15000 V (DC, 1min)
Minimum insulation resistance	5000 MΩ·km
Jacket spark test voltage	8000 V (AC)
Peak power	310 kW
Velocity	89 %

Frequency (MHz)	Attenuation (dB/100m, 20 °C)	Coupling Loss (50% / 95%, 2m, dB)
150	0.88	75/84
350	1.45	69/76
450	1.71	70/75
800	2.45	68/72
900	2.70	69/73

Range: Coupling Loss: ±5 dB, Attenuation: ±10 %

Notes:

Coupling Loss & Attenuation is tested by the free-space method according to IEC 61196-4 Standards.

HYZ-50-42 (1-5/8")

- The product characterized long electromagnetic radiation distance and is suitable for the coverage of enclosed areas, such as rail tunnels, high speed railway tunnels, underground parking and so on. It has strong radiation performance and uniform fluctuation in narrow band.
- Best working frequency range: 800~1000 & 1700~2700MHz

• Structure

Cable type	Radiating
Size	1-5/8"
Inner conductor material / OD	Helical copper tube / 17.3 mm
Insulating material	Physical foamed polyethylene dielectric
Outer conductor material / OD	Overlapping corrugated copper foil / 43.5 mm
Jacket material	LSOH polyolefin
Diameter over Jacket / color	48.0 mm / black
Weight	1000 kg/km

• Mechanical characteristics

Tensile force	>3000 N
Minimum bending radius, single bend	700 mm
Indication of slot alignment	Guides opposite to slots
Minimum distance to wall	100 mm
Recommended clamp spacing	1~1.5 m
Installation temperature	-25~+60 °C
Operation temperature	-40~+85 °C
Storage temperature	-70~+85 °C

• Electrical characteristics

Cut-off frequency	1100~1500 MHz
Polarization	Vertical
VSWR	1.3
Impedance	50±2 Ω
Encircle DC resistance	3 Ω/km
Insulation dielectric strength	15000 V (DC, 1min)
Minimum insulation resistance	5000 MΩ·km
Jacket spark test voltage	8000 V (AC)
Peak power	310 kW
Velocity	89 %

Frequency (MHz)	Attenuation (dB/100m, 20 °C)	Coupling Loss (50% / 95%, 2m, dB)
150	0.92	80/90
450	1.70	84/91
800	2.30	66/70
900	2.51	66/68
1800	4.30	65/70
2200	5.45	62/66
2400	6.25	61/66

Range: Coupling Loss: ±5 dB, Attenuation: ±10 %

Notes:

Coupling Loss & Attenuation is tested by the free-space method according to IEC 61196-4 Standards.



TAYZ-50-22-C1 (7/8")

- The product is applicable for the coverage of density in long, narrow and enclosed areas such as mines, buildings and elevators etc. It has little fluctuation of electromagnetic density and uniform coverage in broadband.
- Best working frequency range: 50~3000 MHz

Performances

• Structure

Cable type	Coupling
Size	7/8"
Inner conductor material / OD	Copper tube / 9.0 mm
Insulating material	Physical foamed polyethylene dielectric
Outer conductor material / OD	Annular corrugated copper tube milled / single slots
Jacket material	LSOH polyolefin
Diameter over Jacket / color	27.5 mm / black
Weight	510 kg/km

• Mechanical characteristics

Tensile force	>1500 N
Minimum bending radius, single bend	300 mm
Indication of slot alignment	Guides opposite to slots
Minimum distance to wall	100 mm
Recommended clamp spacing	0.9 m
Installation temperature	-25~+60 °C
Operation temperature	-40~+85 °C
Storage temperature	-70~+85 °C

• Electrical characteristics

Cut-off frequency	50~3000 MHz
Polarization	Vertical
VSWR	1.3
Impedance	50±2 Ω
Encircle DC resistance	3 Ω/km
Insulation dielectric strength	6000 V (DC, 1min)
Minimum insulation resistance	5000 MΩ·km
Jacket spark test voltage	8000 V (AC)
Peak power	91 kW
Velocity	88 %

Frequency (MHz)	Attenuation (dB/100m, 20 °C)	Coupling Loss (50% / 95%, 2m, dB)
150	1.60	68/78
450	2.75	68/79
800	3.73	69/79
900	4.21	69/79
1800	6.36	68/78
2200	7.23	69/79
2400	7.56	70/80

Range: Coupling Loss: ±5 dB, Attenuation: ±10 %

Notes:

Coupling Loss & Attenuation is tested by the free-space method according to IEC 61196-4 Standards.



CTAYZ-50-22-C2 (7/8")

- The product is applicable for the coverage of density in long, narrow and enclosed areas such as mines, buildings and elevators etc. It has little fluctuation of electromagnetic density and uniform coverage in broadband.
- Best working frequency range: 50~3000 MHz

Performances

• Structure

Cable type	Coupling
Size	7/8"
Inner conductor material / OD	Copper tube / 9.0 mm
Insulating material	Physical foamed polyethylene dielectric
Outer conductor material / OD	Annular corrugated copper tube milled / single slots
Jacket material	LSOH polyolefin
Diameter over Jacket / color	27.5 mm / black
Weight	510 kg/km

• Mechanical characteristics

Tensile force	>1500 N
Minimum bending radius, single bend	300 mm
Indication of slot alignment	Guides opposite to slots
Minimum distance to wall	100 mm
Recommended clamp spacing	0.9 m
Installation temperature	-25~+60 °C
Operation temperature	-40~+85 °C
Storage temperature	-70~+85 °C

• Electrical characteristics

Cut-off frequency	50~3000 MHz
Polarization	Vertical
VSWR	1.3
Impedance	50±2 Ω
Encircle DC resistance	3 Ω/km
Insulation dielectric strength	6000 V (DC, 1min)
Minimum insulation resistance	5000 MΩ·km
Jacket spark test voltage	8000 V (AC)
Peak power	91 kW
Velocity	88 %

Frequency (MHz)	Attenuation (dB/100m, 20 °C)	Coupling Loss (50% / 95%, 2m, dB)
150	1.80	64/74
450	3.30	70/80
800	4.80	78/80
900	4.90	77/79
1800	7.95	71/79
2200	8.75	72/78
2400	9.20	71/80

Range: Coupling Loss: ±5 dB, Attenuation: ±10 %

Notes:

Coupling Loss & Attenuation is tested by the free-space method according to IEC 61196-4 Standards.



TAYZ-50-32-C1 (1-1/4")

- The product is applicable for the coverage of density in long, narrow and enclosed areas such as mines, buildings and elevators etc. It has little fluctuation of electromagnetic density and uniform coverage in broadband.
- Best working frequency range: 50~3000 MHz

Performances



• Structure

Cable type	Coupling
Size	1-1/4"
Inner conductor material / OD	Copper tube / 13.1 mm
Insulating material	Physical foamed polyethylene dielectric
Outer conductor material / OD	Annular corrugated copper tube milled / single slots
Jacket material	LSOH polyolefin
Diameter over Jacket / color	38.4 mm / black
Weight	850 kg/km

• Mechanical characteristics

Tensile force	>2600 N
Minimum bending radius, single bend	500 mm
Indication of slot alignment	Guides opposite to slots
Minimum distance to wall	100 mm
Recommended clamp spacing	1~1.2 m
Installation temperature	-25~+60 °C
Operation temperature	-40~+85 °C
Storage temperature	-70~+85 °C

• Electrical characteristics

Cut-off frequency	50~3000 MHz
Polarization	Vertical
VSWR	1.3
Impedance	50±2 Ω
Encircle DC resistance	3 Ω/km
Insulation dielectric strength	10000 V (DC, 1 min)
Minimum insulation resistance	5000 MΩ·km
Jacket spark test voltage	8000 V (AC)
Peak power	200 kW
Velocity	88 %

Frequency (MHz)	Attenuation (dB/100m, 20 °C)	Coupling Loss (50% / 95%, 2m, dB)
150	1.20	67/75
450	2.30	73/83
800	3.25	75/85
900	3.60	76/86
1800	6.00	77/88
2200	6.20	78/87
2400	6.90	80/88

Range: Coupling Loss: ±5 dB, Attenuation: ±10 %

Notes:

Coupling Loss & Attenuation is tested by the free-space method according to IEC 61196-4 Standards.

LCTAYZ-50-32-C2 (1-1/4")

- The product is applicable for the coverage of density in long, narrow and enclosed areas such as mines, buildings and elevators etc. It has little fluctuation of electromagnetic density and uniform coverage in broadband.
- Best working frequency range: 50~3000 MHz

Performances

• Structure

Cable type	Coupling
Size	1-1/4"
Inner conductor material / OD	Copper tube / 13.1 mm
Insulating material	Physical foamed polyethylene dielectric
Outer conductor material / OD	Annular corrugated copper tube milled / single slots
Jacket material	LSOH polyolefin
Diameter over Jacket / color	38.4 mm / black
Weight	850 kg/km

• Mechanical characteristics

Tensile force	>2600 N
Minimum bending radius, single bend	500 mm
Indication of slot alignment	Guides opposite to slots
Minimum distance to wall	100 mm
Recommended clamp spacing	1~1.2 m
Installation temperature	-25~+60 °C
Operation temperature	-40~+85 °C
Storage temperature	-70~+85 °C

• Electrical characteristics

Cut-off frequency	50~3000 MHz
Polarization	Vertical
VSWR	1.3
Impedance	50±2 Ω
Encircle DC resistance	3 Ω/km
Insulation dielectric strength	10000 V (DC, 1min)
Minimum insulation resistance	5000 MΩ·km
Jacket spark test voltage	8000 V (AC)
Peak power	200 kW
Velocity	88 %

Frequency (MHz)	Attenuation (dB/100m, 20 °C)	Coupling Loss (50% / 95%, 2m, dB)
150	1.25	61/71
450	2.55	67/78
800	3.69	67/78
900	3.87	68/77
1800	6.68	70/79
2200	9.63	66/76
2400	9.85	68/79

Range: Coupling Loss: ±5 dB, Attenuation: ±10 %



Notes:

Coupling Loss & Attenuation is tested by the free-space method according to IEC 61196-4 Standards.