

# CATEGORY 6 CABLING SOLUTIONS

www.premiumline-cabling.com

Premium Line Category 6 components comply with requirements as per standard ANSI/TIA 568-C.2, ISO/IEC 11801 ED.2, EN 50173-1, these consist compete Category 6 channel to fully support the corresponding protocols & communication services.



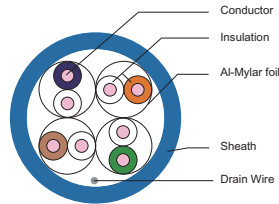
## Installation Cable Category 6 U/FTP 250MHz

### Standards:

- ANSI/TIA-568-C.2
- ISO/IEC 11801 ED.2
- CENELEC EN 50173-1
- CENELEC EN 50288-5-1
- Flame retardancy according to IEC 60332-1-2
- ETL certificated ANSI/TIA-568-B.2-1
- RoHS compliant

### Application:

- 1000BASE-TX (Gigabit Ethernet)
- 1000BASE-T (Gigabit Ethernet)
- 100BASE-TX Fast Ethernet
- 10BASE-T Ethernet
- Voice



### Mechanical & Environmental Characteristics

Bending Radius	≥ 4D, without load ≥ 8D, with load
Operation Temperature	0°C~+50°C
Installation Temperature	-10°C~+50°C
Storage Temperature	-20°C~+50°C

### Construction

Conductor	Material / size	Bare Copper / 23 AWG
Insulation	Material	Foam-Skin PE
Inner-Shield	Aluminum-Mylar	An aluminum foil screen around each pair
Drain Wire	Material	Stranded Tinned Copper / 26AWG
Sheath	Material	PVC / LSOH
	Diameter	7.2± 0.3 mm

### Electrical Performance

Freq (MHz)	Attenuation (dB)		NEXT (dB/100m)		PS NEXT (dB)		ACR (dB)		PSACR (dB)		ACR-F (dB)		PSACR-F (dB)		Return Loss (dB)	
	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.
1.0	2.1	1.8	74.3	82.3	72.3	77.3	72.2	80.5	70.2	75.5	67.8	84.8	64.8	79.8	20.0	29.0
4.0	3.8	3.5	65.3	73.3	63.3	68.3	61.4	69.8	59.4	64.8	55.8	72.8	52.8	67.8	23.0	32.0
10.0	6.0	5.6	59.3	67.3	57.3	62.3	53.3	61.7	51.3	56.7	47.8	64.8	44.8	59.8	25.0	38.0
16.0	7.6	7.1	56.2	64.2	54.2	59.2	48.6	57.1	46.6	52.1	43.7	60.7	40.7	55.7	25.0	34.0
20.0	8.5	7.9	54.8	62.8	52.8	57.8	46.2	54.9	44.2	49.9	41.8	58.8	38.8	53.8	25.0	34.0
31.25	10.8	10.0	51.9	59.9	49.9	54.9	41.1	49.9	39.1	44.9	37.9	54.9	34.9	49.9	23.6	32.0
62.5	15.5	14.4	47.4	55.4	45.4	50.4	31.9	41.0	29.9	36	31.9	48.9	28.9	43.9	21.5	32.0
100.0	19.9	18.6	44.3	52.3	42.3	47.3	24.4	33.7	22.4	28.7	27.8	44.8	24.8	39.8	20.1	32.0
160.0	25.9	24.1	41.2	49.2	39.2	44.2	15.5	25.1	13.5	20.1	23.7	40.7	20	35.7	18.7	31.0
200.0	29.0	26.8	39.8	47.8	37.8	42.8	10.6	21.0	8.6	15.2	21.8	38.8	18.8	33.8	18.0	29.0
250.0	33.0	30.5	38.3	46.3	36.3	40.3	5.3	15.8	3.3	10.8	19.8	37	16.8	31.8	17.3	29.0

### Category 6 U/FTP Installation Cable

PART NO.	DESCRIPTION	PACKING SIZE
206641225	Premium Line Category 6 U/FTP Installation cable, 500 m reels, PVC, Grey	50(O.D)×31(H) cm
206642225	Premium Line Category 6 U/FTP Installation cable, 500 m reels, LSOH, Grey	50(O.D)×31(H) cm

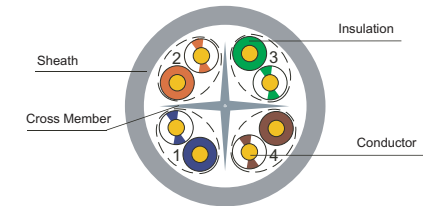
## Installation Cable Category 6 U/UTP 250MHz

### Standards:

- ANSI/TIA-568-C.2
- ISO/IEC 11801 ED.2
- CENELEC EN 50173-1
- CENELEC EN 50288-6-1,
- flame retardancy is verified according to IEC 60332-1-2.
- 3P certified ANSI/TIA-568-B.2-1
- ETL certificated ANSI/TIA-568-B.2-1
- RoHS compliant

### Application:

- 1000BASE-TX (Gigabit Ethernet)
- 1000BASE-T (Gigabit Ethernet)
- 100BASE-TX Fast Ethernet
- 10BASE-T Ethernet
- Voice



### Mechanical & Environmental Characteristics

Bending Radius	≥ 4D, without load ≥ 8D, with load
Operation Temperature	0°C~+50°C
Installation Temperature	-10°C~+50°C
Storage Temperature	-20°C~+50°C

### Construction

Conductor	Material / size	Bare Copper / 23 AWG
Insulation	Material	HDPE
Sheath	Material	PVC / LSOH
	Diameter	6.2± 0.3 mm

### Electrical Performance

Freq (MHz)	Attenuation (dB)		NEXT (dB/100m)		PS NEXT (dB)		ACR (dB)		PSACR (dB)		ACR-F (dB)		PSACR-F (dB)		Return Loss (dB)	
	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.
1.0	2.1	1.8	74.3	82.3	72.3	77.3	72.2	80.5	70.2	75.5	67.8	84.8	64.8	79.8	20.0	29.0
4.0	3.8	3.5	65.3	73.3	63.3	68.3	61.4	69.8	59.4	64.8	55.8	72.8	52.8	67.8	23.0	32.0
10.0	6.0	5.6	59.3	67.3	57.3	62.3	53.3	61.7	51.3	56.7	47.8	64.8	44.8	59.8	25.0	38.0
16.0	7.6	7.1	56.2	64.2	54.2	59.2	48.6	57.1	46.6	52.1	43.7	60.7	40.7	55.7	25.0	34.0
20.0	8.5	7.9	54.8	62.8	52.8	57.8	46.2	54.9	44.2	49.9	41.8	58.8	38.8	53.8	25.0	34.0
31.25	10.8	10.0	51.9	59.9	49.9	54.9	41.1	49.9	39.1	44.9	37.9	54.9	34.9	49.9	23.6	32.0
62.5	15.5	14.4	47.4	55.4	45.4	50.4	31.9	41.0	29.9	36	31.9	48.9	28.9	43.9	21.5	32.0
100.0	19.9	18.6	44.3	52.3	42.3	47.3	24.4	33.7	22.4	28.7	27.8	44.8	24.8	39.8	20.1	32.0
160.0	25.9	24.1	41.2	49.2	39.2	44.2	15.5	25.1	13.5	20.1	23.7	40.7	20	35.7	18.7	31.0
200.0	29.0	26.8	39.8	47.8	37.8	42.8	10.6	21.0	8.6	15.2	21.8	38.8	18.8	33.8	18.0	29.0
250.0	33.0	30.5	38.3	46.3	36.3	40.3	5.3	15.8	3.3	10.8	19.8	37	16.8	31.8	17.3	29.0

### Category 6 U/UTP Installation Cable

PART NO.	DESCRIPTION	PACKING SIZE
206141115	Premium Line Category 6 U/UTP Installation Cable, 305m Box, PVC, Grey	45×45×21 cm
206142115	Premium Line Category 6 U/UTP Installation Cable, 305m Box, LSOH, Grey	45×45×21 cm