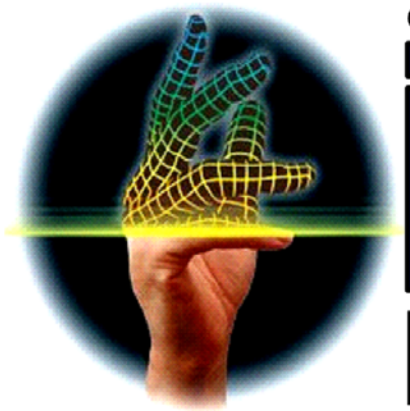


Copper, Fiber, Coaxial, Switching

i-Net Networks

Data, Voice, Telecommunication

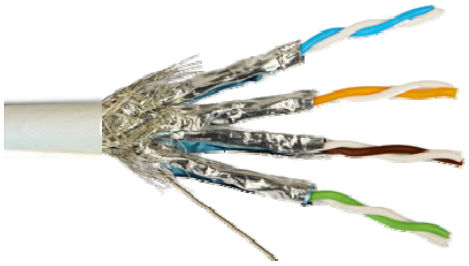
Product Catalog

Contents

Category7 SSTP Solid Indoor Cable

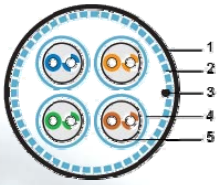
Specifications

Meets ISO/IEC 11801 & IEC 61156-5, category 7 requirements
Low Smoke Zero Halogen
The cable meets UL VW-1, IEC 60332-1, CM fire safety standard



Description

Shielded Copper cable, 4 pairs, Category 7, Solid, 600MHz
4 separately foil-shielded pairs
General shield: wire braid
Cable is used for indoor installation



1 – Jacket
2 – Shield-braid
3 – Drain wire
4 – Shield-foil
5 – Solid twisted pair

Materials

Conductive material: Soft annealed electrolytic copper
Conductor insulation: HDPE, film-porous-film structure
The cable jacket: LSZH
Shield: Separately shielded pairs with polyester aluminum foil
General shield: tin Copper braid – 60% minimum

Technical Characteristics

Conductor diameter: 0.64 mm (0.025") (22 AWG)
Outer cable diameter: 8.2 mm (0.32")
Operating temperature: -30°C – +70°C (-22°F – +158°F)
Weight per 1000 ft (304.8 m): 21.3 kg (47.7 lbs)
Standard package: 305m (1000 ft), 500 m (1640 ft)

Electrical Characteristics

Frequency , MHz	Pair Attenuation, dB/100m	NEXT losses, dB	RL, dB
4	3.6 (1.10)	85	24
10	5.8 (1.80)	85	27
16	7.4 (2.26)	85	27
20	8.3 (2.53)	85	27
31.25	10.4 (3.2)	85	25
62.5	14.6 (4.45)	85	23
100	18.4 (5.61)	85	23
200	26.2 (7.98)	83	20
300	32.1 (9.78)	80	20
600	49 (14.93)	80	20

Conductor resistance at 20°C (68°F)	80.0 Ohm/km (128.75 Ohm/mile)
DC Resistance Unbalance	2% max
Resistance at frequency 1-600 MHz	100 ± 15 Ohm
Transfer impedance at frequency 1-10 MHz	5 MOhm/m (1.52 MOhm/ft) max
Capacitive unbalance at frequency 1 kHz	1.2 pF/m (0.36 pF/ft) max
Maximum voltage	60 V RMS
Dielectric rigidity	700 V/min
Insulation resistance at 20°C (68°F)	152 MOhm/km (244.62 MOhm/mile) min
Propagation velocity	79-80%
Max propagation delay at frequency 1 MHz	5.3 ns/m (1.61 ns/ft)
Max propagation delay at frequency 10 MHz	5.0 ns/m (1.52 ns/ft)
Max propagation delay at frequency 100-600 MHz	5.0 ns/m (1.52 ns/ft)
Max derivation of propagation delay at frequency 1-600 MHz	15 ns/100 m (4.57 ns/100 ft)

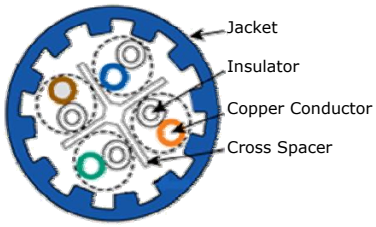
Ordering Information

HI7SSL-**M**	i-Net Networks Horizontal Indoor Cable Category7 SSTP Solid 22AWG 4 Pair LSZH Milky Gray
M	**M**—Milky Gray, **B**—Blue, **L**—Black, **G**—Green, **R**—Red, **Y**—Yellow

Category6A UTP Solid Indoor Cable

Specification

Meets ANSI/EIA/TIA 568-B.2-10 requirements
Meets general purpose cable UL-1581 CM rating
Meets fire retardant low smoke IEC60332-1 rating
Meets ISO/IEC 2nd edition 11801 Amendment 1.2
Meets ISO/IEC 61156-2 2nd edition & CENELEC EN 50288-10-1
Tested up to 650MHz



Description

Copper cable, 4 pairs, Category 6A, Solid, 500MHz
Cable is used for indoor installation

Material

Conductive material: Soft annealed electrolytic copper
Conductor insulation: HDPE, film-porous-film structure
The cable jacket: PVC

Technical Characteristic

Conductor diameter: 0.58 ± 0.02 mm (23AWG)
Insulation diameter: 1.1 ± 0.01 mm
Insulation thickness: Minimum 0.208 mm, Average 0.25 mm
Insulation elongation: Minimum 300%
Insulation tensile strength: Minimum 1.682 Kg/mm²
Sheath thickness: Minimum 0.75mm, Average 0.80 mm

Sheath diameter: 10.5 ± 0.3 mm (0.41")
Sheath elongation: Minimum 100%
Sheath tensile strength: Minimum 1.407 Kg/mm²
Operating temperature: -30°C – +70°C (-22°F – +158°F)
Weight per 1000 ft (304.8 m): 21.3 kg (47.7 lbs)
Standard package: 304.8 m (1000 ft)

Electrical Characteristic

Frequency , MHz	Pair Attenuation, dB/100m	NEXT losses, dB	PS NEXT, dB
1	2.1	74.3	72.3
10	5.9	59.3	57.3
100	19.1	44.3	42.3
200	27.6	39.8	37.8
250	31.1	38.3	36.3
300	34.3	37.1	35.1
400	40.1	35.3	33.3
500	45.3	33.8	31.8

Dielectric strength	2.5kV/3 seconds
Insulation resistance test	Min. 150MΩ/km
Conductor resistance at 20°C (68°F)	9.38Ω/100m (2.9Ω/100ft)
DC Resistance Unbalance	2%
Pair-to-Ground Capacitance Unbalance	160pF/100m (51pF/100 ft)
Impedance 1-500 MHz	100Ω-115Ω
Mutual Capacitance	5.6nF/m (1.7nF/ft)
Spark Test	2.5kV

Ordering Information

HI6AUS-**M**-**C**	i-Net Networks Horizontal Indoor Cable Category6A UTP Solid 23AWG 4 Pair Milky Gray CM
M	**M**—Milky Gray, **B**—Blue, **L**—Black, **G**—Green, **R**—Red, **Y**—Yellow
C	**C**—CM, **L**—LSZH, **P**—Plenum

Category6A Keystone Jack

Specification

Meets ANSI/EIA/TIA 568-B.2-10, IEEE802.3an
Meets fire retardant UL94V rating
Meets ISO/IEC 2nd edition 11801 Amendment 1.2
Meets EN 50173 Class EA specification
RoHS compliant

Description

It is designed for 22-26 AWG solid conductors
Horizontal & Vertical termination

Material

Housing: ABS UL94V-0
IDC: PC UL94V-0, accepts 22-26 AWG solid wire
PCB: FR-4 1.6 mm (0.062") thick, 2 layers
IDC contact: Phosphor bronze 2.54 micron (50 micro inches) gold over 1.27 micron (100 micro inches) nickel

KJ6A-U-TL

KJ6A-U-PM

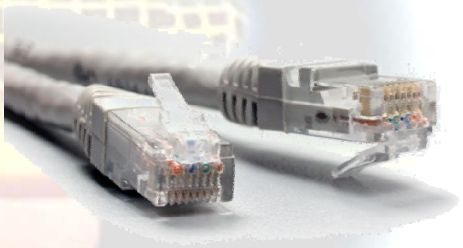
Electrical Characteristic

Dielectric strength: 1000V RMS per minute
Current rating: 1.5 Amp Max.
Insulation Resistance: 500MΩ
Contact resistance: 20MΩ
Temperature range: -10ºC to +60ºC
Humidity: 10%~90% non condensing

Ordering Information

KJ6A-**U**-**PD**	i-Net Networks Keystone Jack Category6A Unshielded Punch Down
U	**U**—Unshielded, **S**—Shielded
PD	**PD**—Punch Down, **TL**—Tool Less, **PM**—Panel Mount, **FM**—Floor Mount

Category6A Unshielded Patch Cord



Specification

Meets ANSI/EIA/TIA 568-B.2-10 requirements
Meets ISO/IEC 2nd edition 11801 Amendment 1.2
Meets ISO/IEC 61156-2 2nd edition for stranded cable

Material

Cable
Conductor: 7 copper wires Ø0.20 mm (0.008"), 24 AWG
Insulation: High Density Polyethylene (HDPE)
Diameter of insulated conductor: 0.98 ± 0.05 mm (0.039" ± 0.002")
Number of pairs: 4
Color of Twisted Pairs: blue-white/blue, orange-white/orange, green-white/green, brown-white/brown
Jacket: PVC 5.85 ± 0.2 mm

Plug
2 pieces Unshielded RJ-45 8P8C, category 6A, for patch cable
Contact: Phosphor bronze, 2.54 micron (50 micro inches) gold over 1.27 micron (100 micro inches) nickel
Molded Boot Material: PVC

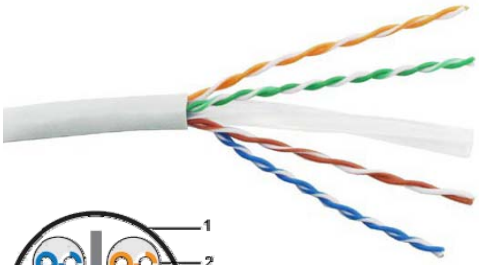
Ordering Information

PC6AU-**M**-**03**	i-Net Networks Patch Cord Category6A Unshielded Stranded 24AWG 4Pair Milky Gray 3 Feet
M	**M**—Milky Gray, **B**—Blue, **L**—Black, **G**—Green, **R**—Red, **Y**—Yellow
03	**03**—3 Ft, **06**—6 Ft, **10**—10 Ft, **16**—16 Ft

Category6 UTP Solid Indoor Cable

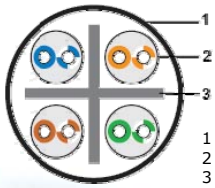
Specification

Meets ANSI/EIA/TIA 568-B.2-1 requirements
Meets general purpose cable UL-1581 CM rating
Meets fire retardant low smoke IEC60332-1 rating
Meets plenum UL-910 rating
Tested up to 350MHz



Description

Unshielded copper cable, 4 pairs, category 6, solid
Cable is used for indoor installation



1 – Jacket
2 – Solid Twisted Pair
3 – Spacer

Material

Conductive material: Soft annealed electrolytic copper
Conductor insulation: HDPE, film-porous-film structure
The cable jacket: PVC / LSZH / Plenum

Technical Characteristic

Conductor diameter: 0.56-0.51 ± 0.01 mm (23-24 AWG)
Insulated conductor diameter: 0.99 ± 0.2 mm (0.038" ± 0.008")
Outer cable diameter: 6.2 ± 0.2 mm (0.24" ± 0.008")
Jacket thickness: 0.4 mm (0.0157")
Pulling strength: 130 N
Minimum bend radius: 8xØ while installation, 6xØ while vertical cabling, 4xØ while horizontal cabling
Operating temperature: -20°C to +75°C (-4°F to +167°F)
Weight per 1000 ft (304.8 m): 24 AWG 11.5 kg (25.35 lbs) / 23 AWG 13.0 Kg (28.66 lbs)
Standard package: 304.8 m (1000 ft)

Electrical Characteristic

Frequency, MHz	RL	Attenuation, dB	NEXT, dB	PSNEXT, dB	ELFEXT, dB	PSELFEXT, dB
1.0	20.0	2.0	74.3	72.3	67.8	64.8
4.0	20.3	3.8	65.3	63.3	55.8	52.8
8.0	24.5	5.3	60.8	58.8	49.7	46.7
10.0	25.0	6.0	59.3	57.3	47.8	44.8
16.0	25.0	7.6	56.3	54.3	43.7	40.7
20.0	25.0	8.5	54.8	52.8	41.8	38.8
25.0	24.3	9.5	53.3	51.3	39.8	36.8
31.25	23.6	10.7	51.9	49.9	37.9	34.9
62.5	21.5	15.4	47.4	45.4	31.9	28.9
100.0	20.1	19.8	44.3	42.3	27.8	24.8
200.0	18.0	29.0	39.8	37.8	21.8	18.8
250.0	17.3	32.8	38.3	36.3	19.8	16.8

Conductor resistance at 20°C (68°F)	9.38Ω100m (2.9Ω/100ft)
DC Resistance Unbalance	5%
Pair-to-Ground Capacitance Unbalance	330pF/100m (101pF/100ft)
Impedance 1-250 MHz	85Ω-115Ω
Mutual Capacitance	5.6nF/m (1.7nF/ft)
Spark Test	2.5kV

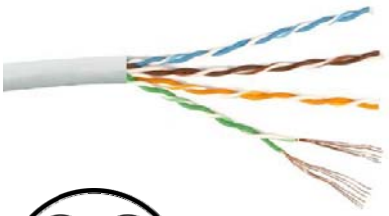
Ordering Information

HI06US3-**M**-**C**	i-Net Networks Horizontal Indoor Cable Category6 UTP Solid 23AWG 4Pair Milky Gray CM
HI06US4-**M**-**C**	i-Net Networks Horizontal Indoor Cable Category6 UTP Solid 24AWG 4Pair Milky Gray CM
M	**M**—Milky Gray, **B**—Blue, **L**—Black, **G**—Green, **R**—Red, **Y**—Yellow
C	**C**—CM, **L**—LSZH, **P**—Plenum

Category6 UTP Stranded Cable

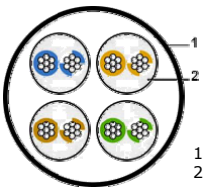
Specification

Meets ANSI/EIA/TIA 568-B.2-1 requirements
Meets general purpose cable UL-1581 CM rating
Meets fire retardant low smoke IEC60332-1 rating



Description

Unshielded Copper, 4 pairs, category 6, stranded
Cable is used for indoor installation



1 – Jacket
2 – Stranded Twisted Pair

Material

Conductive material: wire made of soft annealed electrolytic copper
Conductor insulation: HDPE, film-porous-film structure
The cable jacket: PVC / LSZH

Technical Characteristic

Conductor diameter: 7 x 0.2 mm ± 0.01 mm (7" x 0.008" ± 0.0004") (24 AWG)
Insulated conductor diameter: 1.03 ± 0.2 mm (0.04 " ± 0.008")
Outer cable diameter: 5.3 ± 0.2 mm (0.2" ± 0.008")
Jacket thickness: 0.4 mm (0.0157")
Minimum bend radius: 8xØ while installation, 6xØ while vertical cabling, 4xØ while horizontal cabling
Operating temperature: -5°C – +60°C (+23°F – +140°F)
Weight per 1000 ft (304.8 m): 24 AWG 11.5 kg (25.35 lbs)
Standard package: 304.8 m (1000 ft)

Electrical Characteristic

Frequency, MHz	RL	Attenuation, dB	NEXT, dB	PSNEXT, dB	ELFEXT, dB	PSELFEXT, dB
1.0	20.0	2.4	74.3	72.3	67.8	64.8
4.0	23.0	4.5	65.3	63.3	55.8	52.8
8.0	24.5	6.4	60.8	58.8	49.7	46.7
10.0	25.0	7.1	59.3	57.3	47.8	44.8
16.0	25.0	9.1	56.2	54.2	43.7	40.7
20.0	25.0	10.2	54.8	52.8	41.8	38.8
25.0	24.2	11.4	53.3	51.3	39.8	36.8
31.25	23.3	12.8	51.9	49.9	37.9	34.9
62.5	20.7	18.5	47.4	45.4	31.9	28.9
100.0	19.0	23.8	44.3	42.3	27.8	24.8
200.0	16.4	34.8	39.8	37.8	21.8	18.8
250.0	15.6	39.4	38.3	36.3	19.8	16.8

Conductor resistance at 20°C (68°F)	9.38Ω/100m (2.9Ω/100ft)
DC Resistance Unbalance	5%
Pair-to-Ground Capacitance Unbalance	330pF/100m (101pF/100ft)
Impedance 1-250 MHz	85Ω-115Ω
Mutual Capacitance	5.6nF/m (1.7nF/ft)
Spark Test	2.5kV

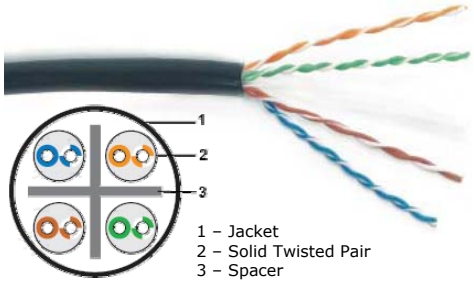
Ordering Information

HI06UR-**M**-**C**	i-Net Networks Horizontal Cable Category6 UTP Stranded 24AWG 4Pair Milky Gray CM
M	**M**—Milky Gray, **B**—Blue, **L**—Black, **G**—Green, **R**—Red, **Y**—Yellow
C	**C**—CM, **L**—LSZH

Category6 UTP Solid Outdoor Cable

Specification

Meets ANSI/EIA/TIA 568-B.2-1 requirements
Meets general purpose cable UL-1581 CM rating
Meets fire retardant low smoke IEC60332-1 rating
Meets plenum UL-910 rating
Tested up to 350MHz



1 – Jacket
2 – Solid Twisted Pair
3 – Spacer

Description

Unshielded Copper cable, 4 pairs, category 6, solid
Cable is used for outdoor installation

Material

Conductive material: wire made of soft annealed electrolytic copper
Conductor insulation: HDPE, film-porous-film structure
The cable inner jacket: PVC / LSZH / Plenum
The Cable outer jacket: UV resistant black PE

Technical Characteristic

Conductor diameter: 0.56-0.51 ± 0.01 mm (23-24 AWG)
Insulated conductor diameter: 0.99 ± 0.2 mm (0.038" ± 0.008")
Outer cable diameter: 6.2 ± 0.2 mm (0.24" ± 0.008")
Jacket thickness: 0.65 mm (0.025")
Pulling strength: 130 N maximum
Minimum bend radius: 8xØ while installation, 6xØ while vertical cabling, 4xØ while horizontal cabling
Conductor elongation: 14% minimum
Operating temperature: -40°C – +60°C (-40°F – +140°F)
Weight per 1000 ft (304.8 m): 24 AWG 12.5 kg (27.56 lbs) / 23 AWG 14.0 Kg (30.86 lbs)
Standard package: 304.8 m (1000 ft)

Electrical Characteristic

Frequency, MHz	RL	Attenuation, dB	NEXT, dB	PSNEXT, dB	ELFEXT, dB	PSELFEXT, dB
1.0	20.0	2.0	65.3	62.3	63.8	60.8
4.0	23.0	4.0	56.3	53.3	51.7	48.7
8.0	24.5	5.8	51.8	48.8	45.7	42.7
10.0	25.0	6.5	50.3	47.3	43.8	40.8
16.0	25.0	8.2	47.3	44.3	39.7	36.7
20.0	25.0	9.3	45.8	42.8	37.7	34.7
25.0	24.3	10.4	44.3	41.3	35.8	32.8
31.25	23.6	11.7	42.9	39.9	33.9	30.9
62.5	21.5	17.0	38.4	35.4	27.8	24.8
100.0	20.1	22.0	35.3	32.3	23.8	20.8
200.0	18.6	27.9	33.2	30.3	20.7	17.8
250.0	17.3	31.9	30.2	28.3	17.9	14.7

Conductor resistance at 20°C (68°F)	9.38Ω/100m (2.86Ω/100ft)
DC Resistance Unbalance	5%
Pair-to-Ground Capacitance Unbalance	330pF/100m (101pF/100ft)
Impedance 1-250 MHz	85Ω-115Ω
Mutual Capacitance	5.6nF/m (1.7nF/ft)
Spark Test	2.5kV

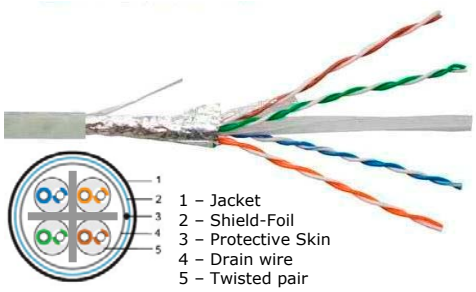
Ordering Information

HO06USL-**3**-**C**	i-Net Networks Horizontal Outdoor Cable Category6 UTP Solid 23AWG 4Pair Black PE CM
3	**3**—23AWG, **4**—24AWG
C	**C**—CM, **L**—LSZH, **P**—Plenum

Category6 FTP Solid Indoor Cable

Specification

Meets ANSI/EIA/TIA 568-B.2-1 requirements
Meets general purpose cable UL-1581 CM rating
Meets fire retardant low smoke IEC60332-1 rating
Meets plenum UL-910 rating



1 – Jacket
2 – Shield-Foil
3 – Protective Skin
4 – Drain wire
5 – Twisted pair

Description

Foiled Copper cable, 4 pairs, category 6, solid
4 foiled twisted pairs
General shield: aluminum foil
Cable is used for indoor installation

Material

Conductive material: wire made of soft annealed electrolytic copper
Conductor insulation: HDPE, film-porous-film structure
The cable jacket: PVC / LSZH / Plenum
Shield: 4 pair is foiled with polyester aluminum foil, which covers 100% of twisted pair
General shield: An aluminum tape shield is helically applied over the cable core with a minimum overlap of 25% or 5 mm (0.19"), thickness – 0.025 mm (0.001"), width – 20 mm (0.78")

Technical Characteristic

Conductor diameter: 0.56-0.51 ± 0.01 mm (23-24 AWG)
Insulated conductor diameter: 1.56 mm (0.06")
Outer cable diameter: 8.4 mm (0.33")
Jacket thickness: 0.5 mm (0.019")
Pulling strength: 130 N maximum
Minimum bend radius: 9xØ while installation, 7xØ while vertical cabling, 5xØ while horizontal cabling
Conductor elongation: 14% minimum
Operating temperature: -20°C – +60°C (-4°F – +140°F)
Weight per 1000 ft (304.8 m): 24 AWG 12.5 kg (27.56 lbs) / 23 AWG 14.5 Kg (31.97 lbs)
Standard package: 304.8 m (1000 ft)

Electrical Characteristic

Frequency, MHz	RL	Attenuation, dB	NEXT, dB	PSNEXT, dB	ELFEXT, dB	PSELFEXT, dB
1.0	20.0	2.0	65.3	62.3	63.8	60.8
4.0	23.0	4.0	56.3	53.3	51.7	48.7
8.0	24.5	5.8	51.8	48.8	45.7	42.7
10.0	25.0	6.5	50.3	47.3	43.8	40.8
16.0	25.0	8.2	47.3	44.3	39.7	36.7
20.0	25.0	9.3	45.8	42.8	37.7	34.7
25.0	24.3	10.4	44.3	41.3	35.8	32.8
31.25	23.6	11.7	42.9	39.9	33.9	30.9
62.5	21.5	17.0	38.4	35.4	27.8	24.8
100.0	20.1	22.0	35.3	32.3	23.8	20.8
200.0	19.5	25.6	32.2	29.8	19.6	18.7
250.0	18.7	29.3	29.4	26.4	16.8	16.8

Max conductor resistance at 20°C (68°F)	9.38Ω/100m (2.9Ω/100ft)
Max Resistance Unbalance	5%
Max pair-to-ground capacitance unbalance	330pF/100m (101pF/100ft)
Characteristic Impedance at 1-250 MHz	85Ω-115Ω
Mutual capacitance	5.6nF/m (1.7nF/ft)
Spark Test	2.5kV

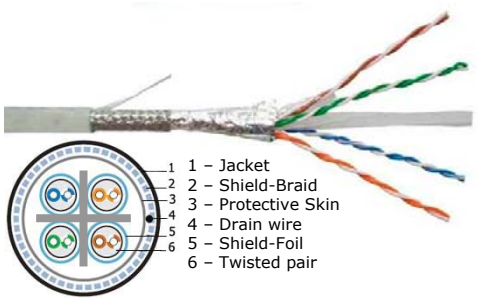
Ordering Information

HI06FSM-**3**-**C**	i-Net Networks Horizontal Indoor Cable Category6 FTP Solid 23AWG 4Pair Milky Gray CM
3	**3**—23AWG, **4**—24AWG
C	**C**—CM, **L**—LSZH, **P**—Plenum

Category6 SFTP Solid Indoor Cable

Specification

Meets ANSI/EIA/TIA 568-B.2-1 requirements
Meets general purpose cable UL-1581 CM rating
Meets fire retardant low smoke IEC60332-1 rating
Meets plenum UL-910 rating



Description

Shielded Copper cable, 4 pairs, category 6, solid
4 foil-shielded twisted pairs
General shield: aluminum foil and wire braid
Cable is used for indoor installation

Material

Conductive material: wire made of soft annealed electrolytic copper
Conductor insulation: HDPE, film-porous-film structure
The cable jacket: PVC / LSZH / Plenum
Shield: 4 pair is shielded with polyester aluminum foil, which covers 100% of twisted pair
General shield: An aluminum tape shield is helically applied over the cable core with a minimum overlap of 25% or 5 mm (0.19"), thickness – 0.025 mm (0.001"), width – 20 mm (0.78")

Technical Characteristic

Conductor diameter: 0.56-0.51 ± 0.01 mm (23-24 AWG)
Insulated conductor diameter: 1.56 mm (0.06")
Outer cable diameter: 8.4 mm (0.33")
Jacket thickness: 0.5 mm (0.019")
Pulling strength: 130 N maximum
Minimum bend radius: 9xØ while installation, 7xØ while vertical cabling, 5xØ while horizontal cabling
Conductor elongation: 14% minimum
Operating temperature: -20°C – +60°C (-4°F – +140°F)
Weight per 1000 ft (304.8 m): 24 AWG 13.5 kg (29.76 lbs) / 23 AWG 15.7 Kg (34.61 lbs)
Standard package: 304.8 m (1000 ft)

Electrical Characteristic

Frequency, MHz	RL	Attenuation, dB	NEXT, dB	PSNEXT, dB	ELFEXT, dB	PSELFEXT, dB
1.0	20.0	2.0	65.3	62.3	63.8	60.8
4.0	23.0	4.0	56.3	53.3	51.7	48.7
8.0	24.5	5.8	51.8	48.8	45.7	42.7
10.0	25.0	6.5	50.3	47.3	43.8	40.8
16.0	25.0	8.2	47.3	44.3	39.7	36.7
20.0	25.0	9.3	45.8	42.8	37.7	34.7
25.0	24.3	10.4	44.3	41.3	35.8	32.8
31.25	23.6	11.7	42.9	39.9	33.9	30.9
62.5	21.5	17.0	38.4	35.4	27.8	24.8
100.0	20.1	22.0	35.3	32.3	23.8	20.8
200.0	19.5	25.6	32.2	29.8	19.6	18.7
250.0	18.7	29.3	29.4	26.4	16.8	16.8

Max conductor resistance at 20°C (68°F)	9.38Ω/100m (2.9Ω/100ft)
Max Resistance Unbalance	5%
Max pair-to-ground capacitance unbalance	330pF/100m (101pF/100ft)
Characteristic Impedance at 1-250 MHz	85Ω-115Ω
Mutual capacitance	5.6nF/m (1.7nF/ft)
Spark Test	2.5kV

Ordering Information

HI06SSM-**3**-**C**	i-Net Networks Horizontal Indoor Cable Category6 SFTP Solid 23AWG 4Pair Milky Gray CM
3	**3**—23AWG, **4**—24AWG
C	**C**—CM, **L**—LSZH, **P**—Plenum

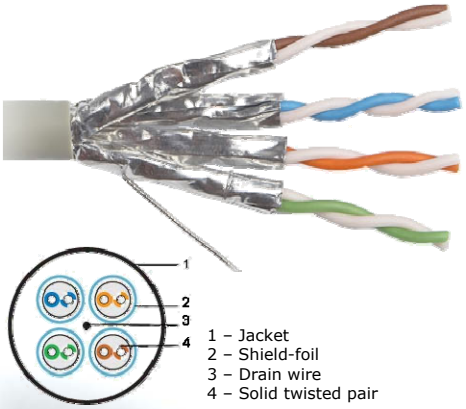
Category6 SSTP Solid Indoor Cable

Specification

Meets ANSI/EIA/TIA 568-B.2-1 requirements
Meets general purpose cable UL-1581 CM rating
Meets fire retardant low smoke IEC60332-1 rating
Meets plenum UL-910 rating

Description

Shielded Copper cable, 4 pairs, category 6, solid
4 separately foil-shielded twisted pairs
Cable is used for indoor installation



1 – Jacket
2 – Shield-foil
3 – Drain wire
4 – Solid twisted pair

Material

Conductive material: wire made of soft annealed electrolytic copper
Conductor insulation: HDPE
The cable jacket: PVC / LSZH / Plenum
Every pair is separately 100% shielded with polyester aluminum foil

Technical Characteristic

Conductor diameter: 0.56 ± 0.01 mm (0.022" ± 0.0004") (23 AWG)
Insulated conductor diameter: 1.43 mm (0.056")
Outer cable diameter: 7.8 mm (0.3")
Jacket thickness: 0.7 mm (0.0275")
Pulling strength: 130 N maximum
Minimum bend radius: 8xØ while installation, 6xØ while vertical cabling, 4xØ while horizontal cabling

Conductor elongation: 14% minimum
Rip cord has a breaking strength of 10 kg (98 N)
Drain wire diameter: 0.5 mm (0.01968")
Installation temperature is -5°C – +50°C (+23°F – +122°F)
Operating temperature: -20°C – +60°C (-4°F – +140°F)
Weight per 1000 ft (304.8 m): 23 AWG 16.4 kg (36.16 lbs)
Standard package: 304.8 m (1000 ft)

Electrical Characteristic

Frequency, MHz	Pair Attenuation, dB/100m (dB/100ft)	NEXT, dB	PS NEXT, dB	PP ELFEXT, dB/100m (dB/100ft)	PS ELFEXT, dB/100m (dB/100ft)	RL, dB
1	2 (0.6)	80	77	75 (22.86)	72 (21.94)	20
4	3.8 (1.16)	80	77	75 (22.86)	72 (21.94)	23
10	6 (1.83)	80	77	75 (22.86)	72 (21.94)	25
16	7.6 (2.32)	80	77	75 (22.86)	72 (21.94)	25
20	8.5 (2.59)	80	77	75 (22.86)	72 (21.94)	25
31.25	10.7 (3.26)	80	77	75 (22.86)	72 (21.94)	23.6
62.5	15.4 (4.69)	80	77	75 (22.86)	72 (21.94)	22
100	19.8 (6.03)	80	77	70 (21.34)	67 (20.42)	21
125	22.4 (6.83)	70	67	65 (19.81)	62 (19.90)	20
200	29 (8.84)	70	67	60 (18.29)	57 (17.37)	19
250	35.6 (10.85)	70	67	55 (16.77)	52 (15.04)	18

Maximum conductor resistance at 20°C (68°F)	73.0Ω/km (117.48Ω/mile)
Resistance unbalance	2% max.
Resistance at the frequency of 1-250 MHz	100Ω ± 15%
Transfer impedance at the frequency of 1 MHz	50MΩ/m (15.24MΩ/ft) max.
Transfer impedance at the frequency of 10 MHz	100MΩ/m (30.48MΩ/ft) max.
Transfer impedance at the frequency of 30 MHz	200MΩ/m (60.69MΩ/ft) max.
Insulation resistance at 20°C (68°F)	152MΩ/km (244.62MΩ/mile) min.
Capacitive unbalance at the frequency of 1 kHz	1.5pF/m (0.46pF/ft)
Capacity at the frequency of 1 kHz	43pF/m (13.1pF/ft)
Maximum voltage	60V RMS
Dielectric rigidity	700V per minute
Propagation velocity	80%
Max. derivation of propagation delay at freq. of 1-250 MHz	25ns/100m (7.62ns/100 ft)

Ordering Information

HI06TSM-**C**	i-Net Networks Horizontal Indoor Cable Category6 SSTP Solid 23AWG 4Pair Milky Gray CM
C	**C**—CM, **L**—LSZH, **P**—Plenum

Category6 Patch Panel

Specification

Meets ANSI/TIA/EIA-568-B.2 Category 6 requirements
Meets TIA/EIA TSB-40
Meets ISO/IEC Generic Cabling Standard 11801:2002 ed.2.0
Meets CENELEC Generic Cabling Standard EN50173 – 1:2002
Meets EN 50173-1 specification

Description

19" standard size for mounting in racks and cabinets
This patch panel is designed for 22-26 AWG solid conductors
Height: 1U (24 ports), 2U (48 ports)

Material

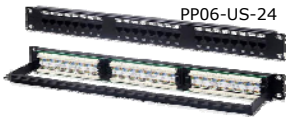
Housing: ABS 94V-0
IDC: PC UL94V-0
PCB: FR-4 1.6 mm (0.06") thick, 2 layers
Contacts: 0.35 mm (0.014") phosphor bronze with 1.27 micron (50 micro inches) gold plated contact area
Metal housing: 1.6 mm (0.06") thick metal

Construction Characteristic

- Modern design and mounting simplicity
- Color marking of conductors according to T568B and T568A
- Numeral marking of ports on the front side of the panel
- Color and numeral marking of IDC modules on the rear side
- IDC Dual contacts provide minimal crosstalk
- 110 type punch down tool is used for cable termination
- LCI Lighting Cable Identification Technology for saving cost and time on cable identification job (*LED Patch Panel Only)*
- Two LED statuses (Green/Red) for identifying on-line or off-line to check connectivity to active device (*LED Patch Panel Only)*

PP06-UL-24

PP06-US-24



PP06-SS-24

PP06-KU-24

Electrical Characteristic

According to UL1863
Current rating: 1.5A Max.
Voltage rating: 150V
Contact Resistance: 20MΩ
Insulation Resistance: 500MΩ
Dielectric Withstand Voltage: 1000V AC RMS, 60Hz/1min

Ordering Information

PP06-**UL**-**24**	i-Net Networks Patch Panel Category6 Unshielded LED Dual IDC 24 Port
UL	**UL**—Unshielded LED Dual IDC, **US**—Unshielded Std. Dual IDC, **SS**—Shielded Std. Dual IDC, **KU**—Keystone Unloaded, **KL**—Keystone Loaded
24	**24**—24 Port, **48**—48 Port

Category6 Keystone Jack

Specification

Meets TIA/EIA-568-A Category 6 requirements
Meets TIA/EIA TSB-40
Meets ISO/IEC Generic Cabling Standard 11801
Meets CENELEC Generic Cabling Standard EN50173

Description

It is designed for 22-26 AWG solid conductors
Horizontal & Vertical termination

Material

Housing: ABS UL94V-0
IDC: PC UL94V-0, accepts 22-26 AWG Solid Wire
PCB: FR-4 1.6 mm (0.062") thick, 2 layers
Contact: 0.45 mm (0.018") in diameter, phosphor and bronze with 1.27 micron (50 micro inches) gold plating

Structural Feature

Category identification on the front side of the panel
Conductor color code according to T568B and T568A
Contact color and numerical marking
i-Net Networks patch cord usage provides the best connection.

KJ06-U-PD

KJ06-S-PD

KJ06-U-TL

KJ06-U-PM

KJ06-U-FM

Electrical Characteristic

According to UL1863
Current rating: 1.5 Amp Max.
Voltage rating: 150V
Contact resistance: 20MΩ
Insulation Resistance: 500MΩ
Dielectric Withstand Voltage: 1000V AC RMS, 60Hz/1min

Ordering Information

KJ06-**U**-**PD**	i-Net Networks Keystone Jack Category6 Unshielded Punch Down
U	**U**—Unshielded, **S**—Shielded
PD	**PD**—Punch Down, **TL**—Tool Less, **PM**—Panel Mount, **FM**—Floor Mount

Category6 Unshielded Patch Cord

Material

Cable
Conductor: 7 copper wires Ø0.20 mm (0.008"), 24 AWG
Insulation: High Density Polyethylene (HDPE)
Diameter of insulated conductor: 0.98 ± 0.05 mm (0.039" ± 0.002")
Number of pairs: 4
Color of Twisted Pairs: blue-white/blue, orange-white/orange, green-white/green, brown-white/brown
Jacket: PVC Ø6, 8±0, 2 mm

Plug
2 pieces Unshielded RJ-45 8P8C, category 6, for patch cable
Contact: 1.27 micron (50 micro inches) gold plated copper alloy
Molded Boot Material: PVC

Ordering Information

PC06U-**M**-**01**	i-Net Networks Patch Cord Category6 Unshielded Stranded 24AWG 4Pair Milky Gray 1 Feet
M	**M**—Milky Gray, **B**—Blue, **L**—Black, **G**—Green, **R**—Red, **Y**—Yellow
01	**01**—1 Ft, **02**—2 Ft, **03**—3 Ft, **06**—6 Ft, **10**—10 Ft, **16**—16 Ft, **32**—32 Ft, **49**—49 Ft, **65**—65 Ft, **98**—98 Ft

Category6 Shielded Patch Cord

Material

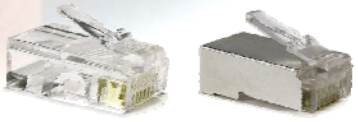
Cable
Conductor: 7 copper wires Ø0.20 mm (0.008"), 24 AWG
Insulation: High Density Polyethylene (HDPE)
Diameter of insulated conductor: 0.98 ± 0.05 mm (0.039" ± 0.002")
Number of pairs: 4
Color of Twisted Pairs: blue-white/blue, orange-white/orange, green-white/green, brown-white/brown
Grounding wire: 0.20 mm/7 tinned copper
Jacket: PVC Ø6, 8±0, 2 mm

Plug
2 pieces Shielded RJ-45 8P8C, category 6, for patch cable, shielded
Contact: 1.27 micron (50 micro inches) gold plated copper alloy
Molded Boot Material: PVC

Ordering Information

PC06S-**M**-**03**	i-Net Networks Patch Cord Category6 Shielded Stranded 24AWG 4Pair Milky Gray 3 Feet
M	**M**—Milky Gray, **B**—Blue, **L**—Black, **G**—Green, **R**—Red, **Y**—Yellow
03	**03**—3 Ft, **06**—6 Ft, **10**—10 Ft, **16**—16 Ft

Category6 Modular Plug



Material

Housing: PC UL94V-2
Contacts: copper alloy with 1.27 micron (50 micro inches) gold plated
Shield: copper alloy, covering – nickel

Ordering Information

P06-**U**	i-Net Networks Modular Plug Category6 Unshielded
U	**U**—Unshielded, **S**—Shielded

Category6 Cross Connect System

Mounting Panel

100 and 200 pair 110-type panel for interconnection wiring
Mounting: Rack / Wall Mounting
Color: white

Connection Block

Housing: PC/ABS
PIN: phosphor-bronze with gold plating
Standard: Category6
Types: 4 Pair / 5 Pair
Color: white

Connection Clip

Housing: PC/ABS
Cover: transparent PC
PIN: phosphor-bronze with gold plating

Patch Cord

Cable
Conductor: 7 copper wires Ø0.20 mm (0.008"), 24 AWG
Diameter of insulated conductor: 0.98 ± 0.05 mm (0.039" ± 0.002")
Number of pairs: 1/2/4
Color of twisted pairs: blue-white/blue, orange-white/orange, green-white/green, brown-white/brown
Jacket: PVC Ø2.6 ± 0.2 mm (0.1" ± 0.008")/PVC Ø4.2 ± 0.2 mm (0.17" ± 0.008")/PVC Ø5.5 ± 0.2 mm (0.22" ± 0.008")
Jacket color: light grey

Plug
1 Piece 8P8C
1 or 2 pieces, 1 or 2 or 4-pair 110 type, for stranded (patch) cable
Material: Poly Carbonate (PC)
PIN: Phosphor bronze with gold plating

Ordering Information

X06S-**R**-**050**	i-Net Networks Cross Connect System Category6 Rack Mount 100Pair 110 Type
R	**R**—Rack Mount, **W**—Wall Mount without Leg, **L**-Wall Mount with Leg
050	**050**—50 Pair, **100**—100 Pair, **200**—200 Pair
X06M-**W**	i-Net Networks Cross Connect Cable Manager Wall Mount
W	**W**—Wall Mount, **R**—Rack Mount
X06B-**4**	i-Net Networks Cross Connection Block Category6 4Pair
4	**4**—4 Pair, **5**—5 Pair
X06C-**1**	i-Net Networks Cross Connection Clip Category6 1Pair
1	**1**—1 Pair, **2**—2 Pair, **4**—4 Pair
X06P-**1**-**3**	i-Net Networks Cross Connect Patch Cord Category6 Stranded 24AWG 1Pair Milky Grey 3 Feet
1	**1**—1 Pair, **2**—2 Pair, **4**—4 Pair
3	**03**—3 Feet, **06**—6 Feet, **10**—10 Feet

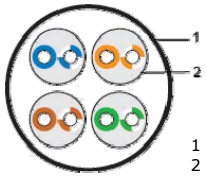
Category5e UTP Solid Indoor Cable

Specification

Meets ANSI/EIA/TIA 568-B.2 requirements
Meets general purpose cable UL-1581 CM rating
Meets fire retardant low smoke IEC60332-1 rating
Meets plenum UL-910 rating

Description

Unshielded Copper cable, 4 pairs, category 5e, solid
Cable is used for indoor installation



1 – Jacket
2 – Solid Twisted Pair

Material

Conductive material: Soft annealed electrolytic copper
Conductor insulation: HDPE
The cable jacket: PVC / LSZH / Plenum

Technical Characteristic

Conductor diameter: 0.51 mm (0.02") (24 AWG)
Insulated conductor diameter: 0.9 ± 0.2 mm (0.035" ± 0.008")
Outer cable diameter: 5.1 ± 0.2 mm (0.2" ± 0.008")
Jacket thickness: 0.4 mm (0.015")
Minimum bend radius: 8xØ while installation, 6xØ while vertical cabling, 4xØ while horizontal cabling
Conductor elongation: 14% minimum
Rip cord has a breaking strength of 10 kg (98 N)
Pulling strength: 92 N
Breaking strength: 600 N
Installation temperature: -5°C – +50°C (+23°F – +122°F)
Operating temperature:-20°C – +75°C (-4°F – +167°F)
Weight per 1000 ft (304.8 m): 10.5 kg (23.15 lbs)
Standard package: 304.8 m (1000 ft)

Electrical Characteristic

Frequency, MHz	RL	Attenuation, dB	NEXT, dB	PSNEXT, dB	ELFEXT, dB	PSELFEXT, dB
0.772	-	1.8	67.0	64.0	-	-
1.0	20.0	2.0	65.3	62.3	63.8	60.8
4.0	23.0	4.0	56.3	53.3	51.7	48.7
8.0	24.5	5.8	51.8	48.8	45.7	42.7
10.0	25.0	6.5	50.3	47.3	43.8	40.8
16.0	25.0	8.2	47.3	44.3	39.7	36.7
20.0	25.0	9.3	45.8	42.8	37.7	34.7
25.0	24.3	10.4	44.3	41.3	35.8	32.8
31.25	23.6	11.7	42.9	39.9	33.9	30.9
62.5	21.5	17.0	38.4	35.4	27.8	24.8
100.0	20.1	22.0	35.3	32.3	23.8	20.8

Conductor resistance at 20°C (68°F)	9.38Ω/100m (2.9Ω/100ft)
DC Resistance Unbalance	5%
Pair-to-Ground Capacitance Unbalance	330pF/100m (101pF/100ft)
Impedance 0.772-100 MHz	85Ω-115Ω
Mutual Capacitance	5.6nF/m (1.7nF/ft)
Spark Test	2.5kV

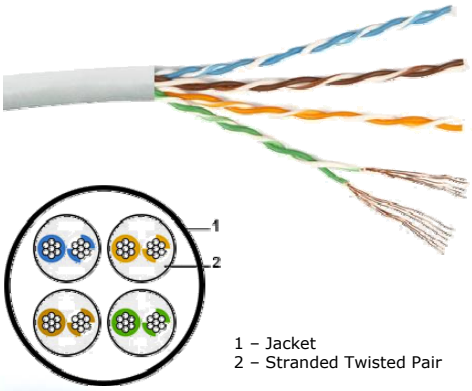
Ordering Information

HI5EUS-**M**-**C**	i-Net Networks Horizontal Indoor Cable Category5e UTP Solid 24AWG 4Pair Milky Grey CM
M	**M**—Milky Grey, **B**—Blue, **L**—Black, **G**—Green, **R**—Red, **Y**—Yellow
C	**C**—CM, **L**—LSZH, **P**—Plenum

Category5e UTP Stranded Cable

Specification

Meets ANSI/EIA/TIA 568-B.2 requirements
Meets general purpose cable UL-1581 CM rating
Meets fire retardant low smoke IEC60332-1 rating
Meets plenum UL-910 rating



1 – Jacket
2 – Stranded Twisted Pair

Description

Unshielded Copper cable, 4 pairs, category 5e, solid
Cable is used for indoor installation

Material

Conductive material: Soft annealed electrolytic copper
Conductor insulation: HDPE
The cable jacket: PVC / LSZH / Plenum

Technical Characteristic

Conductor diameter: 7 x 0.18 mm ± 0.01 mm (7" x 0.007" ± 0.0004") (24 AWG)
Insulated conductor diameter: 0.90 ± 0.2 mm (0.035" ± 0.008")
Outer cable diameter: 5.1 ± 0.02 mm (0.2" ± 0.008")
Jacket thickness: 0.4 mm (0.0157")
Minimum bend radius: 8xØ while installation, 6xØ while vertical cabling, 4xØ while horizontal cabling
Installation temperature: -5°C – +50°C (+23°F – +122°F)
Operating temperature:-20°C – +75°C (-4°F – +167°F)
Weight per 1000 ft (304.8 m): 10.5 kg (23.15 lbs)
Standard package: 304.8 m (1000 ft)

Electrical Characteristic

Frequency, MHz	RL	Attenuation, dB	NEXT, dB	PSNEXT, dB	ELFEXT, dB	PSELFEXT, dB
0.772	-	1.8	67.0	64.0	-	-
1.0	20.0	2.0	65.3	62.3	63.8	60.8
4.0	23.0	4.0	56.3	53.3	51.7	48.7
8.0	24.5	5.8	51.8	48.8	45.7	42.7
10.0	25.0	6.5	50.3	47.3	43.8	40.8
16.0	25.0	8.2	47.3	44.3	39.7	36.7
20.0	25.0	9.3	45.8	42.8	37.7	34.7
25.0	24.3	10.4	44.3	41.3	35.8	32.8
31.25	23.6	11.7	42.9	39.9	33.9	30.9
62.5	21.5	17.0	38.4	35.4	27.8	24.8
100.0	20.1	22.0	35.3	32.3	23.8	20.8

Conductor resistance at 20°C (68°F)	9.38Ω/100m (2.9Ω/100ft)
DC Resistance Unbalance	5%
Pair-to-Ground Capacitance Unbalance	330pF/100m (101pF/100 ft)
Impedance 0.772-100 MHz	85Ω-115Ω
Mutual Capacitance	5.6nF/m (1.7nF/ft)
Spark Test	2.5kV

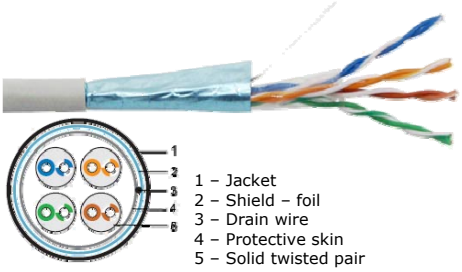
Ordering Information

HI5EUR-**M**-**C**	i-Net Networks Horizontal Indoor Cable Category5e UTP Stranded 24AWG 4Pair Milky Gray CM
M	**M**—Milky Grey, **B**—Blue, **L**—Black, **G**—Green, **R**—Red, **Y**—Yellow
C	**C**—CM, **L**—LSZH

Category5e FTP Solid Indoor Cable

Specification

Meets ANSI/EIA/TIA 568-B.2 requirements
Meets general purpose cable UL-1581 CM rating
Meets fire retardant low smoke IEC60332-1 rating
Meets plenum UL-910 rating



1 – Jacket
2 – Shield – foil
3 – Drain wire
4 – Protective skin
5 – Solid twisted pair

Description

Shielded Copper cable, 4 pairs, category 5e, solid
Shield: Aluminum foil
Cable is used for indoor installation

Material

Conductive material: wire made of soft annealed electrolytic copper
Conductor insulation: HDPE
The cable jacket: PVC / LSZH / Plenum
An aluminum tape shield is helically applied over the cable core with a minimum overlap of 5 mm (0.19")

Technical Characteristic

Conductor diameter: 0.51 mm (0.02") (24 AWG)
Insulated conductor diameter: 0.9 ± 0.2 mm (0.035" ± 0.008")
Outer cable diameter: 5.4 ± 0.2 mm (0.21" ± 0.008")
Jacket thickness: 0.4 mm (0.0157")
Minimum bend radius: 8xØ while installation, 6xØ while vertical cabling, 4xØ while horizontal cabling
Conductor elongation: 14% minimum
Rip cord has a breaking strength of 10 kg (98 N)
Drain wire diameter: 0.5 mm (0.019")
Pulling strength: 92 N
Breaking strength: 400 N
Installation temperature: -5°C – +50°C (+23°F – +122°F)
Operating temperature: -20°C – +75°C (-4°F – +167°F)
Weight per 1000 ft (304.8 m): 11.5 kg (25.35 lbs)
Standard package: 304.8 m (1000 ft)

Electrical Characteristic

Frequency, MHz	RL	Attenuation, dB	NEXT, dB	PSNEXT, dB	ELFEXT, dB	PSELFEXT, dB
0.772	-	1.8	67.0	64.0	-	-
1.0	20.0	2.0	65.3	62.3	63.8	60.8
4.0	23.0	4.0	56.3	53.3	51.7	48.7
8.0	24.5	5.8	51.8	48.8	45.7	42.7
10.0	25.0	6.5	50.3	47.3	43.8	40.8
16.0	25.0	8.2	47.3	44.3	39.7	36.7
20.0	25.0	9.3	45.8	42.8	37.7	34.7
25.0	24.3	10.4	44.3	41.3	35.8	32.8
31.25	23.6	11.7	42.9	39.9	33.9	30.9
62.5	21.5	17.0	38.4	35.4	27.8	24.8
100.0	20.1	22.0	35.3	32.3	23.8	20.8

Max conductor resistance at 20°C (68°F)	9.38Ω/100m (2.86Ω/100ft)
Max Resistance Unbalance	5%
Max pair-to-ground capacitance unbalance	330pF/100m (101pF/100ft)
Characteristic Impedance at 0.772-100 MHz	85Ω-115Ω
Mutual capacitance	5.6nF/m (1.7nF/ft)
Spark Test	2.5kV

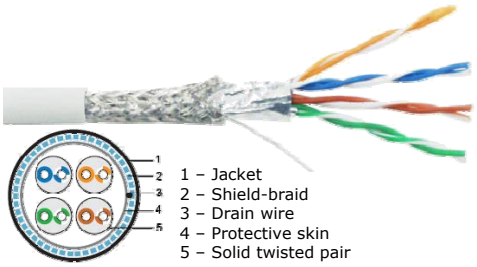
Ordering Information

HI5EFSM-**C**	i-Net Networks Horizontal Indoor Cable Category5e FTP Solid 24AWG 4Pair Milky Gray CM
C	**C**—CM, **L**—LSZH, **P**—Plenum

Category5e SFTP Solid Indoor Cable

Specifications

Meets ANSI/EIA/TIA 568-B.2 requirements
Meets general purpose cable UL-1581 CM rating
Meets fire retardant low smoke IEC60332-1 rating
Meets plenum UL-910 rating



1 – Jacket
2 – Shield-braid
3 – Drain wire
4 – Protective skin
5 – Solid twisted pair

Description

Shielded Copper cable, 4 pairs, category 5e, solid
Shield: Aluminum foil and wire braid
Cable is used for indoor installation

Materials

Conductive material: wire made of soft annealed electrolytic copper
Conductor insulation: HDPE
The cable jacket: PVC
An aluminum tape shield is helically applied over the cable core with a minimum overlap of 25% or 5 mm (0.19"), thickness – 0.025 mm (0.001"), width – 20 mm (0.78"), and braid of 16 tinned Copper wires

Technical Characteristics

Conductor diameter: 7 x 0.2 mm (0.008") (24 AWG)
Insulated conductor diameter: 0.93 ± 0.2 mm (0.036" ± 0.008")
Outer cable diameter: 5.6 ± 0.2 mm (0.22" ± 0.008")
Jacket thickness: 0.4 mm (0.0157")
Minimum bend radius: 8xØ while installation, 6xØ while vertical cabling, 4xØ while horizontal cabling
Conductor elongation: 14% minimum
Drain wire diameter: 0.5 mm (0.019")
Operating temperature: –4°F to +167°F (–20°C to +75°C)
Weight per 1000 ft (304.8 m): 12.5 kg (26.89 lbs)
Standard package: 304.8 m (1000 ft)

Electrical Characteristics

Frequency, MHz	RL	Attenuation, dB	NEXT, dB	PSNEXT, dB	ELFEXT, dB	PSELFEXT, dB
0.772	-	1.8	67.0	64.0	-	-
1.0	20.0	2.0	65.3	62.3	63.8	60.8
4.0	23.0	4.0	56.3	53.3	51.7	48.7
8.0	24.5	5.8	51.8	48.8	45.7	42.7
10.0	25.0	6.5	50.3	47.3	43.8	40.8
16.0	25.0	8.2	47.3	44.3	39.7	36.7
20.0	25.0	9.3	45.8	42.8	37.7	34.7
25.0	24.3	10.4	44.3	41.3	35.8	32.8
31.25	23.6	11.7	42.9	39.9	33.9	30.9
62.5	21.5	17.0	38.4	35.4	27.8	24.8
100.0	20.1	22.0	35.3	32.3	23.8	20.8

Max conductor resistance at 20°C (68°F)	9.38Ω/100m (2.9Ω/100ft)
Max Resistance Unbalance	5%
Max pair-to-ground capacitance unbalance	330pF/100m (101pF/100ft)
Characteristic Impedance at 0.772-100 MHz	85Ω-115Ω
Mutual capacitance	5.6nF/m (1.7nF/ft)
Spark Test	2.5kV

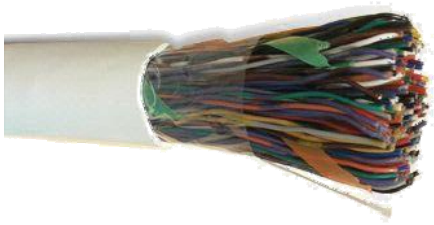
Ordering Information

HI5ESSM-**C**	i-Net Networks Horizontal Indoor Cable Category5e SFTP Solid 24AWG 4Pair Milky Gray CM
C	**C**—CM, **L**—LSZH, **P**—Plenum

Category5e UTP Solid Riser Cable

Specification

Meets ANSI/EIA/TIA 568-B.2 requirements
Meets general purpose cable UL-1581 CM rating
Meets fire retardant low smoke IEC60332-1 rating



Description

Unshielded Copper, 25, 50, 100 pairs, category 5e, solid
Cable is used for indoor/outdoor installation

Material

Conductive material: Soft annealed electrolytic copper
Conductor insulation: HDPE
The cable jacket: PVC, PE Jelly, PE Armored

Electrical Characteristic

Frequency, MHz	Max Attenuation, dB/100 m (ft)	PS-NEXT, dB	PS-ACR, dB/100m (ft)
0.772	1.8 (0.55)	64	62.2 (19.0)
1.0	2.0 (0.6)	62	60.0 (18.3)
4.0	4.1 (1.3)	53	48.9 (14.9)
8.0	5.80 (1.8)	48	42.2 (12.9)
10.0	6.5 (2.0)	47	40.5 (12.3)
16.0	8.2 (2.5)	44	35.8 (10.9)
20.0	9.3 (2.8)	42	32.8 (10.0)
25.0	10.4 (3.2)	41	30.6 (9.3)
31.25	11.7 (3.6)	39	28.3 (8.6)
62.5	17.0 (5.2)	35	18.0 (5.5)
100.0	22.0 (6.7)	32	10.0 (3.0)

Max. dc resistance at 20°C (68°F)	93.8Ω/km (151.3Ω/mile)
Resistance at 1-100 MHz	100Ω ±15%
Resistance unbalance	3%
Capacity at the frequency of 1 kHz	50±4 pF/m (15.3±1 pF/ft)
Capacitive unbalance at 1 kHz	3300pF/km (5322.6pF/mile)
Maximum voltage	300V
Min. unbalance losses at 64 kHz	43dB
Insulating strength	700V RMS
Propagation velocity	68%
Max. propagation delay: at the frequency of 1 MHz at the frequency of 10 MHz at the frequency of 100 MHz	 5.7ns/m (1.74ns/ft) 5.4ns/m (1.64ns/ft) 5.3ns/m (1.61ns/ft)
Derivation propagation delay	35ns/100m (10.67ns/100ft)
Min. insulating resistance	5GΩ/km (8.05GΩ/mile)

Technical Characteristics

Parameters	25 Pair	50 Pair	100 Pair
Conductor diameter	0.51 mm (24 AWG)	0.51 mm (24 AWG)	0.51 mm (24 AWG)
Insulated conductor diameter	0.9 mm (0.035")	0.9 mm (0.035")	0.9 mm (0.035")
Outer cable diameter	11.4 mm (0.45")	17.8 mm (0.70")	24.6 mm (0.97")
Jacket thickness	1.0 mm (0.039")	1.0 mm (0.039")	1.0 mm (0.039")
Minimum bend radius	10xØ	10xØ	10xØ
Conductor elongation	Min 14%	Min 14%	Min 14%
Rip cord breaking strength	10 kg (98 N)	10 kg (98 N)	10 kg (98 N)
Pulling strength	500 N	500 N	500 N
Breaking strength	600 N	600 N	600 N
Installation temperature	-10°C to +40°C	-10°C to +40°C	-10°C to +40°C
Operating temperature	-40°C to +70°C	-10°C to +50°C	-10°C to +50°C
Weight per Std. Pack	65.2 kg (143.7 lbs)	103.6 kg (228.5 lbs)	174 kg (383.7 lbs)
Standard package	304.8 m (1000 ft)	304.8 m (1000 ft)	304.8 m (1000 ft)

Ordering Information

R5EX-**I**-**25**	i-Net Networks Riser Cable Category5e UTP Solid 24AWG CMX Indoor PVC Milky Gray 25 Pair
I	**I**—Indoor PVC Milky Gray, **J**—Outdoor Jelly Filled PE Black, **A**—Outdoor Armored PE Black
25	**25**—25 Pair, **50**—50 Pair, **1H**—100 Pair

Category5e UTP Solid Jumper Cable

Specification

Meets ANSI/EIA/TIA 568-B.2 requirements
Meets general purpose cable UL-1581 CM rating

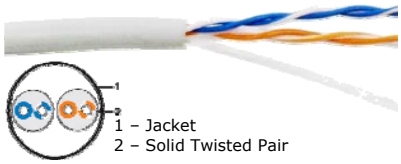

1 – Solid Twisted Pair

Description

Unshielded Copper cable, 2 pairs, category 5, solid
Cable is used for indoor installation

Material

Conductive material: wire made of soft annealed electrolytic copper
Conductor insulation: HDPE
The cable jacket: PVC (polyvinyl chloride)


1 – Jacket
2 – Solid Twisted Pair

Technical Characteristic

Conductor diameter: 0.51 mm (0.02") (24 AWG)
Insulated conductor diameter: 0.92 ± 0.2 mm (0.036" ± 0.008")
Outer cable diameter: 4.6 ± 0.2 mm (0.18" ± 0.008")
Jacket thickness: 0.4 mm (0.0157")
Minimum bend radius: 4xØ
Conductor elongation: 14% minimum
Rip cord has a breaking strength of 10 kg (98 N)

Installation temperature: -5°C – +40°C (+23°F – +104°F)
Operating temperature: -20°C – +75°C (-4°F – +167°F)
Weight: 1 Pair 100 ft (30.48 m) — 0.5 kg (1.10 lbs) /
2 Pair 1000 ft (304.8 m) — 5.5 kg (12.12 lbs)
Std pack: 1 Pair—30.48m, 100m, 200m (100 ft, 328.1 ft, 656.2 ft),
2 Pair—304.8 m (1000 ft)

Conductor resistance at 20°C (68°F)	9.38Ω/100m (2.9Ω/100ft)
DC Resistance Unbalance	5%
Pair-to-Ground Capacitance Unbalance	330pF/100m (101pF/100ft)
Impedance 0.772-100 MHz	85Ω-115Ω
Mutual Capacitance	5.6nF/m (1.7nF/ft)
Spark Test	2.5kV

Ordering Information

HJ5ES-**1**	i-Net Networks Jumper Cable Category5e UTP Solid 24AWG 1 Pair (w/o Jacket)
1	**1**—1 Pair (w/o Jacket), **2**—2 Pair Milky Gray

Category5e Surface Mount Outlet

Specification

Meets ANSI/TIA/EIA-568-B.2 category 5e & TIA/EIA TSB-40
Meets ISO/IEC generic cabling standard 11801
Meets CENELEC generic cabling standard EN50173

Material

Housing: ABS UL94V-0
IDC : PC UL94V-0
PCB : FR-4 1.6 mm (0.06") thick, 2 layers

Electrical Characteristic

In accordance with UL1863
Current rating: 1.5A max
Voltage rating: 150V
Contact resistance: 20MΩ
Dielectric withstand voltage: 1000V AC RMS, 60Hz 1min

Ordering Information

SM5E-**U**-**1**	i-Net Networks Surface Mount Category5e Unshielded 1 Port
U	**U**—Unshielded, **S**—Shielded
1	**1**—1 Port, **2**—2 Port

Category5e Modular Plug

Material

Housing: PC UL94V-2
Contacts: Copper alloy with 1.27 micron (50 micro inches) gold plating
Shield: copper alloy, covering – nickel

Ordering Information

P5E-**U**	i-Net Networks Modular Plug Category5e Unshielded
U	**U**—Unshielded, **S**—Shielded

Category5e Patch Panel

Specification

Meets ANSI/TIA/EIA-568-B.2 Category 5e requirements
Meets TIA/EIA TSB-40
Meets ISO/IEC Generic Cabling Standard 11801:2002 ed.2.0
Meets CENELEC Generic Cabling Standard EN50173 — 1:2002

Description

19" standard size for mounting in racks and cabinets
This patch panel is designed for 22-26 AWG solid conductors
Height: 1U (24 ports), 2U (48 ports)
Horizontal & Vertical termination

Material

Housing: ABS 94V-0
IDC: PC UL94V-0
PCB: FR-4 1.6 mm (0.06") thick, 2 layers
Contacts: 0.35 mm (0.014") phosphor w/ bronze 1.27 micron (50 micro inches) gold plating contact area
Metal housing: 1.6 mm (0.06") thick metal

PP5E-US-24

PP5E-US-48

PP5E-SS-24

PP5E-KU-24

Construction Characteristic

- Color marking of conductors according to T568B and T568A
- Numeral marking of ports on the front side of the panel
- Space for additional marking
- Color numeral marking of IDC on the rear side of the panel
- i-Net Networks patch cord usage provides the best connection
- IDC Dual contacts provide minimal crosstalk
- 110 type punch down tool is used for cable termination
- Removable shield cover (for shielded patch panel only)
- Ground bus (for shielded patch panel only)
- Rear cable manager (for shielded and keystone patch panels only)

Electrical Characteristic

According to UL1863
Current rating: 1.5A max
Voltage rating: 150V
Contact Resistance: 20MΩ
Insulation Resistance: 500MΩ
Dielectric withstand voltage: 1000V AC RMS, 60Hz/1min

Ordering Information

PP5E-**US**-**24**	i-Net Networks Patch Panel Category5e Unshielded Dual IDC 24 Port
US	**UL**—Unshielded LED Dual IDC, **US**—Unshielded Std. Dual IDC, **SS**—Shielded Std. Dual IDC, **KU**—Keystone Unloaded, **KL**—Keystone Loaded
24	**24**—24 Port, **48**—48 Port

Category5e Keystone Jack

Specification

Meets TIA/EIA-568-A Category 5e requirements.
Meets TIA/EIA TSB-40
Meets ISO/IEC Generic Cabling Standard 11801
Meets CENELEC Generic Cabling Standard EN50173

Description

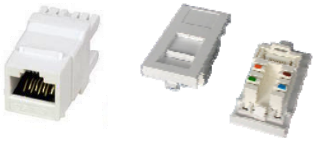
It is designed for 22-26 AWG solid conductors
Horizontal & Vertical termination

Material

Housing: ABS UL94V-0
IDC: PC UL94V-0, accepts 22-26 AWG Solid Wire
PCB: FR-4 1.6 mm (0.062") thick, 2 layers
Contact: 0.45 mm (0.018") in diameter, phosphor and bronze with 1.27 micron (50 micro inches) gold plating

KJ5E-U-PD KJ5E-S-PD KJ5E-U-TL

KJ5E-U-PM KJ5E-U-FM



Structural Feature

Category identification on the front side of the panel
Conductor color code according to T568B and T568A
Contact color and numerical marking

Electrical Characteristic

According to UL1863
Current rating: 1.5A Max.
Voltage rating: 150V
Contact resistance: 20MΩ
Insulation Resistance: 500MΩ
Dielectric Withstand Voltage: 1000V AC RMS, 60Hz/1min

Ordering Information

KJ5E-**U**-**PD**	i-Net Networks Keystone Jack Category5e Unshielded Punch Down
U	**U**—Unshielded, **S**—Shielded
PD	**PD**—Punch Down, **TL**—Tool Less, **PM**—Panel Mount, **FM**—Floor Mount

Category5e Unshielded Patch Cord

Material

Cable
Conductor: 7 copper wires Ø0.20 mm (0.008"), 24 AWG
Diameter of insulated conductor: 0.98 ± 0.05 mm (0.039" ± 0.002")
Number of pairs: 4
Color of twisted pairs: blue-white/blue, orange-white/orange, green-white/green, brown-white/brown
Jacket: PVC Ø5.5 ± 0.2 mm (0.22" ± 0.008")

Plug
2 pieces RJ-45 8P8C
Contact: 1.27 micron (50 micro inches) gold plated copper alloy
Molded Boot Material: PVC

Ordering Information

PC5EU-**M**-**01**	i-Net Networks Patch Cord Category5e Unshielded Stranded 24AWG 4Pair Milky Gray 01 Ft
M	**M**—Milky Gray, **B**—Blue, **L**—Black, **G**—Green, **R**—Red, **Y**—Yellow
01	**01**—1 Ft, **02**—2 Ft, **03**—3 Ft, **06**—6 Ft, **10**—10 Ft, **16**—16 Ft, **32**—32 Ft, **49**—49 Ft, **65**—65 Ft, **98**—98 Ft

Category5e Shielded Patch Cord

Material

Cable
Conductor: 7 copper wires Ø0.20 mm (0.008"), 24 AWG
Insulation: High Density Polyethylene (HDPE)
Diameter of insulated conductor: 0.98 ± 0.05 mm (0.039" ± 0.002")
Number of pairs: 4
Color of twisted pairs: blue-white/blue, orange-white/orange, green-white/green, brown-white/brown
Shield: Aluminum Foil
Drain wire: 7 wires Ø0.20 mm (0.008")
Jacket: PVC Ø5.5 ± 0.2 mm (0.22" ± 0.008")

Plug
2 pieces RJ-45 8P8C
Contact: 1.27 micron (50 micro inches) gold plated copper alloy
Molded Boot Material: PVC

Ordering Information

PC5ES-**M**-**03**	i-Net Networks Patch Cord Category5e Shielded Stranded 24AWG 4Pair Milky Gray 01 Ft
M	**M**—Milky Gray, **B**—Blue, **L**—Black, **G**—Green, **R**—Red, **Y**—Yellow
03	**03**—3 Ft, **06**—6 Ft, **10**—10 Ft, **16**—16 Ft

Universal Modular Face Plate & Back Box

Specification

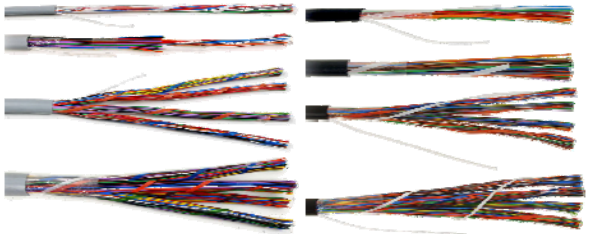
Standard: European Style
Face Plate Housing: ABS UL 94V-0
Back Box Housing: PVC
Face Plate Size: 86 x 86 mm (3.39" x 3.39")
Back Box Size: 85 x 85 mm (3.35" x 3.35")
Face Plate Density: 1-Port and 2-Ports
Back Box Depth: 32mm, 42mm and 45mm

Plain Plate | Aesthetic Plate | Angled Plate

Ordering Information

FPP-**1**-**PP**	i-Net Networks Face Plate PVC White 1 Port
1	**1**—1 Port, **2**—2 Port
PP	**PP**—Plain Plate Plain Holder, **PA**—Plain Plate Angled Holder, **EP**—Aesthetic Plate Plain Holder, **EA**—Aesthetic Plate Angled Holder
FPA-**PL**	i-Net Networks Face Plate Accessory
PL	**PL**—Plain Plate, **ES**—Aesthetic Plate, **PH**—Plain Holder, **AH**—Angled Holder, **QB**—Quarter Blank, **HB**—Half Blank **LM**—Duplex Multimode LC Adapter, **LS**—Duplex Singlemode LC Adapter
BB-**32**	i-Net Networks Back Box 85x85 White 32mm Depth
32	**32**—32mm Depth, **42**—42mm Depth, **45**—45mm Depth

Category3 UTP Riser Solid Cable



Specification

Meets EIA/TIA 568-B for category 3 requirements
Meets general purpose cable UL-1581 CM rating
Meets fire retardant low smoke IEC60332-1 rating

Description

Unshielded Copper cable, 10, 20, 30, 50, 100 pairs, category 3, solid.
Cable is used for indoor/outdoor installation

Material

Conductive material: soft annealed electrolytic copper
Conductor insulation: HDPE
The cable jacket: PVC, PE with Jelly

Electrical Characteristic

Max DC Resistance at 20°C (68°F)	9.38Ω/100m (2.9Ω/100 ft)	Maximum voltage	300V
Max Resistance Unbalance	3%	Characteristic Impedance 1-16 MHz	85Ω-115Ω
Max Capacitance unbalance – pair-to-ground at 1kHz	330pF/100m (101pF/100ft)	Min Relative Velocity of Propagation at 10 MHz	0.585
Max attenuation at 20°C (68°F)		Min worst pair to pair NEXT loss at	
At 772 kHz	2.2dB/100m (0.67dB/100ft)	772 kHz	43dB
At 1 MHz	2.6dB/100m (0.79dB/100ft)	At 1 MHz	41dB
At 4 MHz	5.6dB/100m (1.70dB/100ft)	At 4 MHz	32dB
At 8 MHz	8.5dB/100m (2.59dB/100ft)	At 8 MHz	27dB
At 10 MHz	9.7dB/100m (2.96dB/100ft)	At 10 MHz	26dB
At 16 MHz	13.1dB/100m (3.99dB/100ft)	At 16 MHz	23dB

Min worst pair Structural Return Loss (SRL) upto 10 MHz-12dB; At 16 MHz-10dB

Technical Characteristics

Parameters	10 Pair	20 Pair	30 Pair	50 Pair	100 Pair
Conductor diameter	0.41~0.51 mm (26~24 AWG)	0.41~0.51 mm (26~24 AWG)	0.41~0.51 mm (26~24 AWG)	0.41~0.51 mm (26~24 AWG)	0.41~0.51 mm (26~24 AWG)
Insulated conductor diameter	0.9 mm (0.035")	0.9 mm (0.035")	0.9 mm (0.035")	0.9 mm (0.035")	0.9 mm (0.035")
Outer cable diameter	7.5 mm (0.295")	9.5 mm (0.374")	11 mm (0.433")	15 mm (0.590")	20.0 mm (0.787")
Jacket thickness	1.0 mm (0.039")	1.0 mm (0.039")	1.0 mm (0.039")	1.0 mm (0.039")	1.0 mm (0.039")
Maximum strand pitch	100 mm (3.937")	100 mm (3.937")	100 mm (3.937")	150 mm (5.9")	150 mm (5.9")
Minimum bend radius	6xØ	6xØ	6xØ	8xØ	8xØ
Conductor elongation	Min 14%	Min 14%	Min 14%	Min 14%	Min 14%
Operating temperature	-10°C to +50°C	-10°C to +50°C	-10°C to +50°C	-10°C to +50°C	-10°C to +50°C
Weight per Std. Pack	32.0 kg (70.55 lbs)	51.2 kg (112.9 lbs)	67.2 kg (148.1 lbs)	96 kg (211.6 lbs)	169 kg (372.6 lbs)
Standard package	500 m (1640 ft)	500 m (1640 ft)	500 m (1640 ft)	304.8 m (1000 ft)	304.8 m (1000 ft)

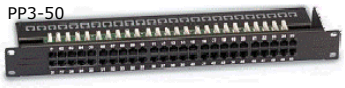
Ordering Information

R34X-**I**-**10**	i-Net Networks Riser Indoor Cable Category3 UTP Solid 24AWG 10 Pair CMX
R36X-**I**-**10**	i-Net Networks Riser Indoor Cable Category3 UTP Solid 26AWG 10 Pair CMX
I	**I**—Indoor PVC Milky Grey, **J**—Outdoor PE Jelly Filled Black, **A**—Outdoor PE Armored Black
10	**10**—10 Pair, **20**—20 Pair, **30**—30 Pair, **50**—50 Pair, **1H**—100 Pair

Category3 Telephone Patch Panel

PP3-25

PP3-50



Specification

Meets ANSI/TIA/EIA-568-B.2 Category 5
Meets TIA/EIA TSB-40
Meets ISO/IEC Generic Cabling Standard 11801
Meets CENELEC Generic Cabling Standard EN50173

Description

Standard size for mounting in 19" racks and cabinets
This patch panel is designed for 22 - 26 AWG solid conductors
Height: 1U (25 Ports), 2U (50 Ports)
Vertical termination
Telephone layout, 2 pairs for port 3,6,4,5

Material

Housing: PC 94V-0
IDC: PC UL94V-0
PCB: FR-4 1.6 mm (0.06") thick, 2 layers
Contacts: 0.35 mm (0.014") phosphor bronze with 1.27 micron (50 micro inches) gold plating contact area
Metal housing: 1.6 mm (0.06") thick of metal

Construction Characteristic

Meets ANSI/TIA/EIA-568-B.2 Category 5
Modern design and simplicity of mounting
Numeral marking of ports on the front side of the panel
Numeral marking of IDC modules on the rear side of the panel
i-Net Networks patch cord usage provides the best connection
Dual IDC contacts provide minimal crosstalk
110 type punch down tool is used for cable termination

Electrical Characteristics

According to UL1863
Current rating: 1.5Â max
Voltage rating: 150V
Contact resistance: 20MΩ
Insulation resistance: 500MΩ
Dielectric withstand voltage: 1000V AC RMS, 60Hz/1min

Ordering Information

PP3-**25**	i-Net Networks Telephone Patch Panel Category3 25 Port
25	**25**—25 Port, **50**—50 Port

Category3 Telco Pigtail

Description

The plug & socket used to connect to telephone stations
Unshielded Copper cable, 25 pairs, category 3, solid
Cable termination with the help of crimping tool

Material

Conductive material: soft annealed electrolytic copper
Conductor insulation: HDPE
Cable jacket: PVC
Housing: ABS black
Insulator: noryl/ polyphenylene oxide
Pin contacts: phosphor bronze with gold plating

Operating Characteristic

Temperature range: -67°F to +221°F (-55°C to +105°C)
Maximum cable diameter: 10 mm (0.4")

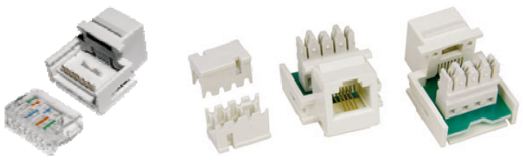
Electrical Characteristic

Min Relative Velocity of Propagation at 10 MHz	0.585
Current rating	Max 5A
Dielectric strength	1000V / Minute
Insulator resistance	1000MΩ / Minute
Contact resistance	Max 20MΩ

Ordering Information

TP3M-**06**	i-Net Networks Telco Pigtail Category3 25Pair 50Pin Male 6 Feet
06	**06**—6 Feet, **10**—10 Feet, **16**—16 Feet, **32**—32 Feet

Category3 Keystone Jack



Description

Accepts 1, 2 or 3-pair solid conductor

Material

Housing: ABS UL94V-0
IDC: PC UL94V-0, Accept 22-26 AWG Solid Wire

Structural Feature

Conductor color code according to T568B and T568A
Contacts color marking of on the transparent module cover
Linear conductor layout
Conductor connection by simple cover latching

Electrical Characteristic

According to UL1863
Current rating: 1.5A Max.
Voltage rating: 150V
Contact resistance: 20MΩ
Insulation Resistance: 500MΩ
Dielectric Withstand Voltage: 1000V AC RMS, 60Hz/1min

Ordering Information

KJ3-N-64	i-Net Networks Keystone Jack Category3 Non PCB 6P4C
KJ3-P-64	i-Net Networks Keystone Jack Category3 PCB 6P4C

Category3 Voice Distribution

Mounting Block

Multiples of 10 pair panel for voice interconnection wiring
Type: Wall, Rack, Floor Standing
Housing: ABS UL94V, Metal Housing

10 Pair Module

10-pair connection & disconnection modules
Housing: ABS/PBT
Contact: phosphor-bronze

Connection Cable

2-pole Test Cable, 6P2C
4-pole Test Cable, 6P4C
2-pole Test Cable, Alligator Clip
4-pole Test Cable, Alligator Clip
Housing: ABS/PBT
Contact: phosphor-bronze

Ordering Information

V3W-050	i-Net Networks Voice DB Category3 Wall Mount 50Pair Unloaded
V3W-100	i-Net Networks Voice DB Category3 Wall Mount 100Pair Unloaded
V3W-200	i-Net Networks Voice DB Category3 Wall Mount 200Pair Unloaded
V3R-150	i-Net Networks Voice DB Category3 Rack Mount 150Pair Unloaded
V3R-300	i-Net Networks Voice DB Category3 Rack Mount 300Pair Unloaded
V3F-0690	i-Net Networks Voice DB Category3 Floor Standing 690Pair Unloaded
V3F-1380	i-Net Networks Voice DB Category3 Floor Standing 1380Pair Unloaded
V3M-C	i-Net Networks Voice Module Category3 10Pair Connection
V3M-D	i-Net Networks Voice Module Category3 10Pair Disconnection
V3C-R2	i-Net Networks Voice Cable Category3 RJ11 6P2C 6 Feet
V3C-A2	i-Net Networks Voice Cable Category3 Alligator 2-Pole 6 Feet

Category3 Surface Mount Outlet

Specification

Meets TIA/EIA TSB-40
Meets ISO/IEC generic cabling standard 11801
Meets CENELEC generic cabling standard EN50173

Material

Housing: ABS UL94V-0
IDC: PC UL94V-0
PCB: FR-4 1.6 mm (0.06") thick, 2 layers

Electrical Characteristic

In accordance with UL1863
Current rating: 1.5A max
Voltage rating: 150V
Contact resistance: 20MΩ
Dielectric withstand voltage: 1000 V AC RMS, 60Hz 1min

Ordering Information

SM3-1-64	i-Net Networks Surface Mount Outlet Category3 1Port 6P4C
SM3-2-64	i-Net Networks Surface Mount Outlet Category3 2Port 6P4C

Category3 Modular Plug

Material

Housing: PC UL94-2
Contacts: copper alloy with 0.23 micron (6 micro inches) gold plating

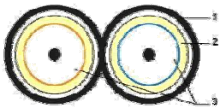
Ordering Information

P3-**42**	i-Net Networks Modular Plug Category3 4P2C
42	**42**—4P2C, **44**—4P4C, **62**—6P2C, **64**—6P4C, **66**—6P6C

Fiber Optic Indoor Cable

Specification

The cable meets EIA-TIA 455 and IEC-60794
Optical characteristics meets ISO/IEC 11801
Meets IEC 60332-1 fire safety standard



1–Jacket
2–Hydrophobous Extender
3–Fiber Optic

Description

Fiber optic cable, multi-mode and single-mode, 2 fibers
General purpose indoor LAN cable
Suitable for installation in a work area, premises wiring, patch cords
Short distance data transmission

Material

Conductive material: optical fiber 9/125µ, 50/125µ, 62.5/125µ
Fiber insulation: tight buffer
Armoring and waterproofing: dielectric aramid strength yarns
Outer jacket: flame-retardant PVC (polyvinylchloride)

Technical Characteristic

Fiber diameter	125 ± 1µm	Tension force (operation)	250 N
The insulated fiber diameter	242 ± 7µm	Crushing force	220 N/cm (558.8 N/in)
Fiber jacket diameter	0.9 mm (0.03")	Impact resistance	1.5 N*m (4.92 N*ft)
Cable outer diameter	2.8 x 6.0 mm (0.11 x 0.24")	Flexing resistance	1000 cycles
Fiber jacket tensile strength	1.3-8.9 N	Cabling temperature	-5°C – +50°C (+23°F – +122°F)
Fiber jacket out-of-roundness	1% or less	Operation temperature	-25°C – +75°C (-13°F – +167°F)
Minimum bend radius	42 mm (1.65")	Storage temperature	-25°C – +75°C (-13°F – +167°F)
Max. number of bends	10 000 times	Weight of 1 km of cable	15.4 kg
Tension force (cabling)	450 N	Standard packing	1000 m (3280.84 ft)

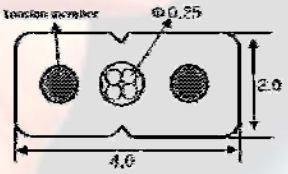
Ordering Information

HIFLN-**50**-**02**	i-Net Networks Horizontal Indoor Fiber Cable Loose Tube Multimode 50/125µ 2 Core Non LSZH
HIFLL-**50**-**02**	i-Net Networks Horizontal Indoor Fiber Cable Loose Tube Multimode 50/125µ 2 Core LSZH
50	**50**—Multimode 50/125µ, **62**—Multimode 62.5/125µ, **09**—Singlemode 9/125µ
02	**02**—2Core

Fiber Optic FTTH (Fiber-To-The-Home) G.657A Dry Cable

Specification

The cable meets EIA-TIA 455 and IEC-60794
Optical characteristics meets ISO/IEC 11801
Meets IEC 60332-1 fire safety standard



Description

Fiber optic cable, single-mode, 2 fibers
General purpose FTTH indoor LAN cable
Suitable for installation in a home
Short distance data transmission

Technical Characteristic

Cable Standard	G.657A	Weight	15 Kg/Km
Core	2	Attenuation dB/km	≤ 0.4 at 1310nm，≤ 0.3 at 1550nm
Type	Singlemode 9/125µ	Tensile Strength at 1500N, 10 Min	≤ 0.2 dB
Fiber Type	Ø 0.25	Cable Twist at 10 cycles, 0.3m	≤ 0.2 dB
Size	0.4 mm x 2 (ea)	Crush Strength at 5N/mm, 10 Min	≤ 0.2 dB
Outer Sheath Color	Black	Temperature –20℃ ~ 60℃, 6 hours	≤ 0.3 dB
Outer Sheath Material	LSZH	Certification	RoHS
Outer Sheath Dimension	4mm x 2mm	Standard Packing	1000 m (3280.84 ft)

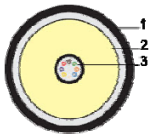
Ordering Information

HIFF-09-02	i-Net Networks Horizontal Indoor Fiber Cable FTTH Singlemode 9/125µ 2 Core

Fiber Optic Single Loose Tube Cable

Specification

Meets EIA/TIA-455 and EIA/TIA FOTP 82B
Meets IEC- 60794 and IEC-60794-1-F5
Optical characteristics meets ISO/IEC 11801
Meets IEC 60332-1 fire safety standard



1–Jacket
2–Hydrophobous Extender
3–Fiber Optic

Description

Fiber optic cable, multi loose tube, 2 – 24 fibers
General purpose LAN cable for Indoor and Outdoor
Campus backbone and building riser cabling
Inter/Intra-building routing

Material

Conducting material: fiber optic 9/125µ, 50/125µ, 62.5/125µ
Fiber insulation: Polybutylene Terephthalate module (tube)
Sheathing and waterproofing: waterproofing aramid strength yarns
Module filling: filled with waterproofing thixotropic gel
Outer sheathing: UVR-resistant polyethylene

Technical Characteristic

Fiber diameter	125 ± 1µm	Tension force (operation)	1600 N
The insulated fiber diameter	242 ± 7µm	Crushing force	440 N/cm (1117.6 N/in)
Fiber jacket diameter	2.1 mm (0.08")	Repeated impact resistance	N = 20
Cable outer diameter	7.3 mm (0.29")	Flexing resistance	25 cycles
Fiber jacket tensile strength	1.3-8.9 N	Operation temperature	-40°C – +75°C (-40°F – +167°F)
Fiber jacket out-of-roundness	1% or less	Storage temperature	-40°C – +75°C (-40°F – +167°F)
Minimum bend radius	146 mm (5.75")	Weight of 1 km of cable	50~100 kg (110.23~220.46 lbs)
Tension force (cabling)	2700 N	Standard bunch	2000 m (6561.6 ft)

Ordering Information

RSLN-**50**-**04**	i-Net Networks Riser Cable Single Loose Tube Multimode 50/125µ 4 Core Non LSZH
RSLL-**50**-**04**	i-Net Networks Riser Cable Single Loose Tube Multimode 50/125µ 4 Core LSZH
50	**50**—Multimode 50/125µ, **62**—Multimode 62.5/125µ, **09**—Singlemode 9/125µ
04	**04**—4Core, **06**—6Core, **08**—8Core, **12**—12Core, **24**—24Core

Fiber Optic Multi Loose Tube Cable

Specification

The cable meets EIA-TIA 455 and IEC-60794
Optical characteristics meets ISO/IEC 11801
Meets IEC 60332-1 fire safety standard

1 – Jacket
2 – Polymer Tape
3 – Fiber Optic
4 – Main Load-Bearing Element

Description

Fiber optic cable, multi loose tube, 24 – 288 fibers
General purpose LAN cable for Indoor and Outdoor
Campus backbone and building riser cabling
Inter/Intra-building routing

Material

Conductive material: optical fiber 9/125µ, 50/125µ, 62.5/125µ
Armoring and waterproofing: dielectric aramid strength yarns
Outer jacket: UV-resistant Halogen Free Flame Retardant (HFFR)
Central strength member: dielectric load-bearing element

Technical Characteristic

Fiber diameter	125 ± 1µm	Tension force (operation)	900 N
The insulated fiber diameter	242 ± 7µm	Crushing force	440 N/cm (1117.6 N/in)
Fiber jacket diameter	2.1 mm (0.08")	Repeated impact resistance	300 cycles
Cable outer diameter	8.8/10.9/13.9 mm (0.35/0.43/0.55")	Cabling temperature	-20°C – +70°C (-4°F – +158°F)
Fiber jacket tensile strength	1.3-8.9 N	Operation temperature	-40°C – +75°C (-40°F – +167°F)
Fiber jacket out-of-roundness	1% or less	Storage temperature	-40°C – +75°C (-40°F – +167°F)
Minimum bend radius	130/145/195 mm (5.12/5.71/7.68")	Weight of 1 km of cable	75~400 kg (165.34~881.84 lbs)
Tension force (cabling)	1500 N	Standard bunch	1000 m (3280.84 ft)

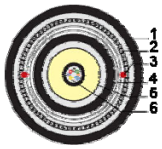
Ordering Information

RMLN-**50**-**024**	i-Net Networks Riser Cable Multi Loose Tube Multimode 50/125µ 24 Core Non LSZH
RMLL-**50**-**024**	i-Net Networks Riser Cable Multi Loose Tube Multimode 50/125µ 24 Core LSZH
50	**50**—Multimode 50/125µ, **62**—Multimode 62.5/125µ, **09**—Singlemode 9/125µ
024	**024**—24Core, **048**—48Core, **096**—96Core, **144**—144Core, **192**—192Core, **240**—240Core, **288**—288Core

Fiber Optic Armored Single Loose Tube Cable

Specification

Meets EIA/TIA-455 and EIA/TIA FOTP 82B
Meets IEC- 60794 and IEC-60794-1-F5
Optical characteristics meets ISO/IEC 11801
Meets IEC 60332-1 fire safety standard



1 – Jacket
2 – Armored band
3 – Rip-cord
4 – Film
5 – Hydrophobous Extender
6 – Fiber optic

Description

Fiber optic cable, single loose tube, 2 – 24 fibers
Waterproof steel armored band,
General purpose LAN cable for Indoor and Outdoor
Campus backbone and building riser cabling
Inter/Intra-building underground cabling

Material

Conductive material: optical fiber 9/125µ, 50/125µ, 62.5/125µ
Fiber insulation: Polybutylene Terephthalate module (loose tube)
Armoring and waterproofing: Water Blocking Aramid Strength Yarns
Filler: Filled with Thixotropic gel protects from water corrugation
Outer sheathing: UV-resistant polyethylene
Armor: corrugated steel band

Technical Characteristic

Fiber diameter	125 ± 1µm	Crushing force	800 N/cm (24384 N/ft)
The insulated fiber diameter	242 ± 7µm	Repeated impact resistance	N = 20
Fiber jacket diameter	2.1 mm (0.08")	Flexing resistance	25 cycles
Cable outer diameter	11.9 mm (0.47")	Cabling temperature	-20°C – +70°C (-4°F – +158°F)
Fiber jacket tensile strength	1.3-8.9 N	Operation temperature	-40°C – +75°C (-40°F – +167°F)
Fiber jacket out-of-roundness	1% or less	Storage temperature	-40°C – +75°C (-40°F – +167°F)
Minimum bend radius	238 mm (9.38")	Weight of 1 km of cable	75~150 kg (165.34~330.69 lbs)
Tension force (cabling)	2700 N	Standard bunch	2000 m (6561.6 ft)
Tension force (operation)	1600 N		

Ordering Information

RASLN-**50**-**04**	i-Net Networks Riser Cable Armored Single Loose Tube Multimode 50/125µ 4 Core Non LSZH
RASLL-**50**-**04**	i-Net Networks Riser Cable Armored Single Loose Tube Multimode 50/125µ 4 Core LSZH
50	**50**—Multimode 50/125µ, **62**—Multimode 62.5/125µ, **09**—Singlemode 9/125µ
04	**04**—4Core, **06**—6Core, **08**—8Core, **12**—12Core,**24**—24Core

Fiber Optic Armored Multi Loose Tube Cable

Specification

Meets EIA/TIA-455 and EIA/TIA FOTP 82B
Meets IEC- 60794 and IEC-60794-1-F5
Optical characteristics meets ISO/IEC 11801
Meets IEC 60332-1 fire safety standard

1 – Jacket
2 – Armored band
3 – Film
4 – Polymer tape
5 – Rip-cord
6 – Fiber optic
7 – Main load-bearing element

Description

Fiber optic cable, single loose tube, 24 – 288 fibers
Waterproof steel armored band,
General purpose LAN cable for Indoor and Outdoor
Campus backbone and building riser cabling
Inter/Intra-building underground cabling

Material

Conductive material: optical fiber 9/125µ, 50/125µ, 62.5/125µ
Fiber insulation: Polybutylene Terephthalate module (loose tube)
Armoring and Waterproofing: Waterproofing Tape
Filler: Thixotropic gel which protects from water corrugation
Outer sheathing: UV-resistant polyethylene
Armor: corrugated steel band
Central strength member: dielectric load-bearing element

Technical Characteristic

Fiber diameter	125 ± 1µm	Crushing force	3000 N/cm
The insulated fiber diameter	242 ± 7µm	Repeated impact resistance	N = 20
Fiber jacket diameter	2.1 mm (0.08")	Flexing resistance	25 cycles
Cable outer diameter	14/ 15.7/ 16.8/ 18.9/ 21.5 mm	Cabling temperature	-20°C – +70°C (-4°F – +158°F)
Fiber jacket tensile strength	1.3-8.9 N	Operation temperature	-40°C – +75°C (-40°F – +167°F)
Fiber jacket out-of-roundness	1% or less	Storage temperature	-40°C – +75°C (-40°F – +167°F)
Tension force (cabling)	3000 N	Weight of 1 km of cable	100~600 kg (220.46~1322.75 lbs)
Tension force (operation)	1000 N	Standard bunch	1000 m (3280.84 ft)

Ordering Information

RAMLN-**50**-**024**	i-Net Networks Riser Cable Armored Multi Loose Tube Multimode 50/125µ 24 Core Non LSZH
RAMLL-**50**-**024**	i-Net Networks Riser Cable Armored Multi Loose Tube Multimode 50/125µ 24 Core LSZH
50	**50**—Multimode 50/125µ, **62**—Multimode 62.5/125µ, **09**—Singlemode 9/125µ
024	**024**—24Core, **048**—48Core, **096**—96Core, **144**—144Core, **192**—192Core, **240**—240Core, **288**—288Core

Fiber Optic Connector

Specification

Compatible with all NTT-FC/SC standards

Ordering Information

CE-**50**-**C**	i-Net Networks Fiber Optic Connector Epoxy Multimode 50/125µ SC
50	**50**—Multimode 50/125µ, **62**—Multimode 62.5/125µ, **09**—Singlemode 9/125µ
T	**T**—ST, **C**—SC, **L**—LC

Fiber Optic Adapter

Description

- Terminated with metal stopper and screws
- Polymeric caps protect the adapters against dust
- Allows easy identification
- Singlemode adapters come with white (FC) and blue (SC) caps
- Multimode adapters come with black (FC) and beige (SC) caps
- FC, SC, ST adapters are inline and they are used for the precise centre positioning of connectors' ferrules in special sleeves
- Centre positioning in MTRJ adapters is performed using guiding pins and the ferrules are centre positioned in special sleeves

Material

Nickel brass, plastic
Phosphor bronze centre sleeve

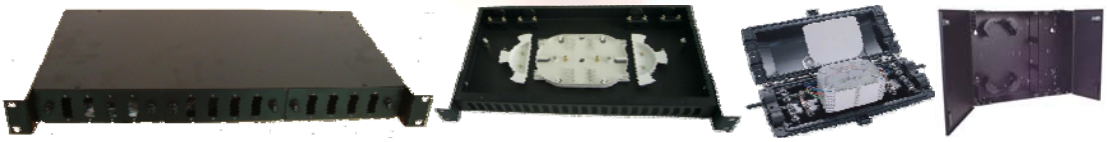
Technical Specification

Insertion loss: 0.3 dB
Storage temperature: –40°C to +80°C (–40°F to +176°F)
Operating temperature: –20°C to +70°C (–4°F to +158°F)
Maximum permissible humidity: 95%

Ordering Information

AS-**M**-**TT**	i-Net Networks Fiber Optic Simplex Adapter Multimode ST-ST
AD-**M**-**TT**	i-Net Networks Fiber Optic Duplex Adapter Multimode ST-ST
M	**M**—Multimode, **S**—Singlemode
TT	**TT**—ST-ST, **CC**—SC-SC, **LL**—LC-LC, **FF**—FC-FC, **MM**—MTRJ-MTRJ, **TC**—ST-SC, **CL**—SC-LC, **LF**—LC-FC

Fiber Optic Patch Panel & Splice Unit



Ordering Information

PPFD-**EU**	i-Net Networks Fiber Patch Panel Duplex Empty Universal
EU	**EU**—Empty Universal, **2T**—24Core ST, **2C**—24Core SC, **2L**—24Core LC, **4T**—48Core ST, **4C**—48Core SC, **4L**—48Core LC
PPFA-**C**	i-Net Networks Fiber Optic Adapter Panel SC for PPFD-EU
C	**T**—ST, **C**—SC, **L**—LC, **R**—RJ45
STF-**W**-**048**	i-Net Networks Fiber Optic Splicing & Termination Unit Wall Mount 48 Core
W	**W**—Wall Mount, **U**—Underground
048	**048**—48 Core, **096**—96 Core, **192**—192 Core, **288**—288 Core

Fiber Optic Patch Cord

Description

IEC 60874-10, TIA/EIA-604-2, Telcordia GR-326-CORE
Meets IEC 60332-1 fire safety standard

Specification

Ferrule Outer Diameter		1.25mm, 2.5mm (±0.0005mm), 125~125.5, 126~127			
Cord	SM	9/125μ		Ferrule	Zirconia
	MM	50/125μ, 62.5/125μ		Spring	Stainless Steel
Connector	Type	ST, SC, LC, FC, MTRJ		C-ring	SK5M
	Boot Color	Yellow, Blue, Black, Green, Beige		Ring	Brass
	Hood	0.9mm, 2.0mm, 2.4mm, 3.0mm		Crimping ring	Aluminum
Technical Characteristics	Insertion Loss	SM: <0.3 dB, MM: <0.4 dB	Materials	Boot	Kay Flex
	Return Loss	> 45 dB		Dust cap	PE (Black, White, Yellow)
	End Face Radius	10 mm <R< 25 mm (0.39"<R<0.98")		Coupling Device	PBT
	Apex Offset	< 0.002" (50 μm)		Frame	PBT
	Operating Temperature	-40°C to +85°C (-40°F to 185°F)		Washer	-
Length	1m (3.28ft), 2m (6.56ft), 3m (9.84ft), 5m (16.4ft), 10m (32.8ft)			Cable	LSZH

Ordering Information

PCD50P-**TT**-**01**	i-Net Networks Fiber Patch Cord Duplex Multimode 50/125μ PC ST-ST 1m
PCD62P-**TT**-**01**	i-Net Networks Fiber Patch Cord Duplex Multimode 62.5/125μ PC ST-ST 1m
PCD09P-**TT**-**01**	i-Net Networks Fiber Patch Cord Duplex Singlemode 9/125μ PC ST-ST 1m
PCD50A-**TT**-**01**	i-Net Networks Fiber Patch Cord Duplex Multimode 50/125μ APC ST-ST 1m
PCD62A-**TT**-**01**	i-Net Networks Fiber Patch Cord Duplex Multimode 62.5/125μ APC ST-ST 1m
PCD09A-**TT**-**01**	i-Net Networks Fiber Patch Cord Duplex Singlemode 9/125μ APC ST-ST 1m
TT	**TT**—ST-ST, **TC**—ST-SC, **TL**—ST-LC, **TF**—ST-FC, **TM**—ST-MTRJ **CC**—SC-SC, **CL**—SC-LC, **CF**—SC-FC, **CM**—SC-MTRJ **LL**—LC-LC, **LF**—LC-FC, **LM**—LC-MTRJ **FF**—FC-FC, **FM**—FC-MTRJ **MM**—MTRJ-MTRJ
01	**01**—1meter, **02**—2meter, **03**—3meter, **05**—5meter, **10**—10meter

Fiber Optic Pigtail

Description

Compliant with Telcordia, TIA/EIA/IEC
Meets IEC 60332-1 fire safety standard

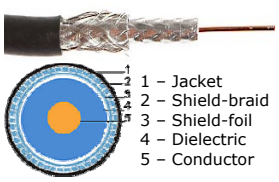
Specification

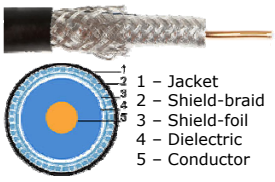
Ferrule Outer Diameter	SM	125~125.5		Ferrule	Zirconia Ceramic
	MM	126~127		Spring	Stainless Steel
Cord	SM	9/125μ		C-ring	SK5M
	MM	50/125μ, 62.5/125μ		Ring	Brass
Connector	Type	ST, SC, LC, FC		Crimping ring	Aluminum
	Boot Color	Yellow, Black	Materials	Boot	Kay Flex, Santopren
Technical Characteristics	Insertion Loss	SM < 0.3 dB, MM < 0.4 dB		Dust cap	LD PE
	Return Loss	> 45 dB,		Coupling Device	Brass
	End Face Radius	10 mm < R < 25 mm		Frame	PBT
	Apex Offset	< 50 mm		Washer	Brass
Length	1m (3.28ft), 2m (6.56ft), 3m (9.84ft)			Cable	LSZH

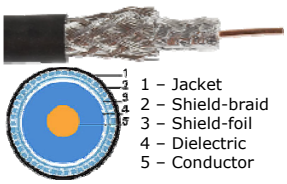
Ordering Information

PTS50P-**T**-**1**	i-Net Networks Fiber Pigtail Simplex Multimode 50/125μ PC ST 1m
PTS62P-**T**-**1**	i-Net Networks Fiber Pigtail Simplex Multimode 62.5/125μ PC ST 1m
PTS09P-**T**-**1**	i-Net Networks Fiber Pigtail Simplex Singlemode 9/125μ PC ST 1m
PTS50A-**T**-**1**	i-Net Networks Fiber Pigtail Simplex Multimode 50/125μ APC ST 1m
PTS62A-**T**-**1**	i-Net Networks Fiber Pigtail Simplex Multimode 62.5/125μ APC ST 1m
PTS09A-**T**-**1**	i-Net Networks Fiber Pigtail Simplex Singlemode 9/125μ APC ST 1m
T	**T**—ST, **C**—SC, **L**—LC, **F**—FC, **M**—MTRJ
1	**1**—1meter, **2**—2meter, **3**—3meter

Coaxial Cable







Cable Type	**RG6**	**RG11**	**RG59**
Wave impedance	75Ω	75Ω	75Ω
Conductor diameter	1.02 mm (0.04") (18 AWG)	1.62 mm (0.06") (14 AWG)	0.81 mm (0.03") (20 AWG)
Dielectric diameter	4.57 mm (0.18")	7.11 mm (0.28")	3.66 mm (0.14")
Outer jacket thickness	0.8 mm (0.031")	1.1 mm (0.04")	0.9 mm (0.035")
Outer cable diameter	6.9 mm (0.27")	10.16 mm (0.4")	6.02 mm (0.24")
Shield	0.16 mm (0.006") 65%	0.18 mm (0.007") 65%	0.16 mm (0.006") 65%
Test frequency	up to 3 GHz	up to 3 GHz	up to 1 GHz
Voltage rating	3000 V	5000 V	2300 V
Temperature range	-20°C – +80°C (-4°F – +176°F)	-20°C – +80°C (-4°F – +176°F)	-20°C – +80°C (-4°F – +176°F)
Weight per 1000 ft (304.8 m)	14 kg (30.9 lbs)	30.2 kg (66.5 lbs)	10.7 kg (23.5 lbs)
Standard packing	1000 ft (304.8 m)	1000 ft (304.8 m)	1000 ft (304.8 m)

Ordering Information

HIRG-**06**-**65**	i-Net Networks Horizontal Indoor Coaxial Cable RG6 65% Braid
06	**06**—RG6, **11**—RG11, **59**—RG59
65	**65**—65% Braid

Coaxial Plug

Materials

Housing - nickel-plated zinc
Center conduct - gold-plated brass
Insulator - POM
Rubber washer - PVC
Washer - nickel-plated iron
Sleeve - nickel-plated brass


RG11

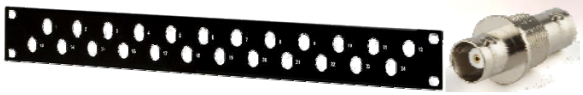

RG6


BT3002

Ordering Information

PBM-**S**-**06**	i-Net Networks Coaxial Plug BNC Male Solder RG6
S	**S**—Solder, **C**—Crimp
06	**06**—RG6, **11**—RG11, **59**—RG59, **32**—BT3002

Coaxial Patch Panel



Ordering Information

PPC-BF-**24**	i-Net Networks Coaxial Patch Panel 24 Port Unloaded
24	**24**—24 Port, **48**—48 Port
PPCA-BF	i-Net Networks Coaxial Patch Panel Adapter BNC Female

Coaxial Adapter

Ordering Information

AC-**BS**-**F**	i-Net Networks Coaxial Adapter BNC-S Female
BS	**BS**—BNC-S, **BT**—BNC-T
F	**F**—Female, **M**—Male

Bal-Un (Balanced to Unbalanced) Dual G.703 75Ω-120Ω

BU-D-BF—i-Net Networks Bal-Un Dual G703 BNC Female

T1 (1.5Mbps) or E1 (2Mbps) up to 32Mbps Data Rate
75Ω Dual Coaxial to 120Ω Twisted Pair 50µ Glod Plated
Exceeds CCITT G.703 Specifications and IEEE Standards
Insertion Loss <0.5 dB
Return Loss <16 dB
Cross Talk <60 dB
Bidirectional Signal Transmission
Passive device, No power required

Wall Mount Cabinet

Feature

Adjustable profile, single & double sections
Reliable structure and easy wall-mounting installation
Removable side panels with hinged locks
Cable entry on top cover and bottom panel
Top mounted fan

Standard

ANSI/EIA RS-310-D, DIN41494, part 1, IEC297-2, DIN41494, part 7
Height: 4U, 6U, 9U, 12U, 15U, 18U
Width: 600mm
Standard depth: 450mm, 550mm
Customized depth: 100mm~300mm
Package: Assembled/Unassembled

Material

SPCC cold rolled steel
Thickness: 19" profile-0.06" (1.5mm), others-0.05" (1.2mm)

Surface Finish

Black, Degreasing, pickling, phosphoric, powder coated

Package

Front Glass Door (FGD)
Quick Open Side Door (QOSD)
Two Adjustable 19" Profile (2AP)
One Top Mounted 1 Fan (CAF-200A) (only for 450mm & 550mm)
Lock with Key (CAL-SD)
Ten Cage Nut (CACN-1 x 10)

Ordering Information

CWS-**04**-**45**	i-Net Networks Cabinet Wall Mount Black Single Section 4U 600x450mm
CWD-**04**-**55**	i-Net Networks Cabinet Wall Mount Black Double Section 4U 600x550mm
04	**04**—4U, **06**—6U, **09**—9U, **12**—12U, **15**—15U, **18**—18U
45	**15**—150mm, **20**—200mm, **25**—250mm, **30**—300mm, **45**—450mm, **55**—550mm

Floor Standing Cabinet

Feature

- Easy to assemble flat pack or fully assembled
- Connected by four-corner to ensure the intensity
- Exquisite design with precise craftsmanship
- Toughened glass or vented front door
- Adjustable feet and heavy duty castors
- Top and bottom panel for cable entry
- Removable side panel
- High-density vented rear door

Standard

ANSI/EIA RS-310-D, IEC297-2, DIN41491 part 1, DIN41494
Height: 15U, 18U, 22U, 27U, 32U, 37U, 42U, 47U
Width: 600mm and 800mm
Depth: 600mm, 800mm, 1000mm
Package: Assembled/Unassembled

Material

Frame: Steel
Others: SPCC cold rolled steel
Thickness: Profile - 0.08" (2.0 mm), Angle - 0.06" (1.5 mm),
Side Panel -0.03" (0.8 mm), others - 0.05" (1.2 mm)

Loading Capacity

Static loading: up to 400kg (15U~27U), up to 800kg (32U~47U)

Surface Finish

Black, Degreasing, pickling, phosphoric, powder coated

Main Structure

Front glass (FGD) or vented (FPMD) door
Quick open side door (QOSD)
Four adjustable profile (4AP)
Two vertical cable manager (CAWM-V-C x 2)
Light duty castor (LDC) (15-22U), Heavy duty castor (HDC) (27-47U)
Twenty five cage nut (CACN-1 x 25)
Four top mounted fans (4F)
Lock with key (CAL-SD)
Adjustable stopper feet (SF)

Ordering Information

CFG-**15**-**6060**	i-Net Networks Floor Cabinet Black Front Glass Door 15U 600x600mm
CFM-**15**-**6060**	i-Net Networks Floor Cabinet Black Front Perforated Metal Door 15U 600x600mm
15	**15**—15U, **18**—18U, **22**—22U, **27**—27U, **32**—32U, **37**—37U, **42**—42U, **47**—47U
6060	**6060**—600x600mm, **6080**—600x800mm, **601K**—600x1000mm, **8080**—800x800mm, **801K**—800x1000mm

Open Floor Cabinet

Description

Open Cabinet is intended for installation of equipment which does not require full housing. It is also used in instances when equipment is placed in an air-conditioned room. Construction is based on assembled 19" single frame, fixed by screws to the rack base. The base has openings for anchor bolts to brace the rack to the floor.

Surface Finish

Textured powder paint, light gray (RAL 7035) and black (RAL 9005)

Construction

Vertical post
Base
Cross profile

Ordering Information

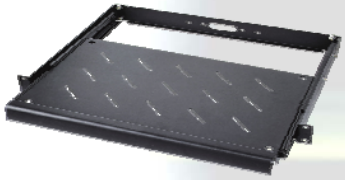
COS-**27**-**60**	i-Net Networks Cabinet Open Black Single Frame 27U
COD-**27**-**60**	i-Net Networks Cabinet Open Black Double Frame 27U
27	**27**—27U, **42**—42U
60	**60**—600mm Depth, **80**—800mm Depth, **1K**—1000mm Depth (only for double frame open cabinets)

Cabinet Accessories

CAFS-**20**-**1** Front Mount Fixed Shelf 200mm 1U
20—200mm, **30**—300mm, **40**—400mm
1—1U, **2**—2U

CARS-**45** Front & Rear Mount Fixed Shelf for 450mm
45—450mm,**60**—600mm, **80**—800mm, **1K**—1000mm

CABP-**1** Blank Panel 1U
1—1U, **2**—2U, **4**—4U



CASS-**45** Sliding Shelf for 450mm
45—450, **60**—600, **80**—800, **1K**—1000

CAWM-**H**-**CR** Horizontal Wire Manager with Ring
H—Horizontal, **V42**—Vertical 42U

CARP-**1** Brush Panel 1 Section
1—1 Section, **2**—2 Section

CAP3-**06**-**M** Power Distribution Unit 13A 6Way IEC320 UK Plug
06—6Way, **10**—10Way
M—Metal, **P**—Plastic

CADT-1 Digital Temperature Unit 1

CACN-1 Cage Nut

Media Converter

Description

The media converter complies with IEEE802.3 Ethernet Standards as well as RS232/422/485 Communication Standards and it is designed to convert interface between Fast Ethernet, Gigabit Ethernet & Communication Signals. On the Twisted Pair interfaces the media converter automatically identifies polarity.

Fast Ethernet or Gigabit Ethernet of Multi-mode and Single-mode media conversion is available at distances at 550m/2Km and 20/40/60/80/100/120 Km respectively.

The media converter is also available in 19" rack chassis with slide in modules. Converter is transparent to all protocols. With Link Fault Pass Though, the link status on Twisted Pair port is propagated to the remote network. The media converters are dual Fiber operates at 850nm/1300nm/1310nm/1550nm.

Feature

10/100Mbps; 10/100/1000Mbps with Full/Half duplex automatically configure in Twisted Pair port
RS485 signal flow auto-recognition of speed 0~115.2 Kbps with auto negotiation
RS485 support 128 nodes and RS422 support 64 nodes
Compliant with RS232/422/485 Communication standards and stable transmission
Compliant with IEEE 802.3 10Base-T; IEEE 802.3u 100Base-TX; IEEE 802.3z/ab 1000Base-T standards
Compliant with 100Base-FX; 1000Base-SX/LX standards
MDI/MDI-X Auto Negotiation
LED Indicators for POWER, FX LINK/ACT, 100, TP LINK/ACT, FDX/COL.
Supports LLR (Link Loss Return) for FX Port
Supports LFP (Link Failure Pass) function
Optional 19" System Chassis
Slide in Modules & Wall-Mountable
FCC Class A & CE approved

Specification

Wavelength
850nm, 1300nm, 1310nm & 1550nm

Fiber Cable
50/125, 62.5/125, 100/140 Multimode
8.3/125, 8.7/125, 9/125 or 10/125 Single-mode

Interface
Copper: RJ45
Serial: RS232/422/485
Optical Fiber: SC, ST, LC
Power: AC UK Plug

Environment
Relative humidity: 5% to 90%
Operating temperature: 0 to 60
Storage temperature: -20 to 70

Distance
Multi-mode 550m/2Km (conditions apply)
Single-mode 20Km/40Km/60Km/80Km/100Km/120Km (conditions apply)

Bandwidth & Performance
Built-in 2MB Buffer Memory
High Performance 1.4Gbps for 10/100Base-Tx & 2Gbps for 10/100/1000Base-Tx

Power Supply
9V/12V DC Adapter
110V to 240V AC 50 to 60Hz

Ordering Information

MCRU-16	i-Net Networks Media Converter Rack Unit Empty 16 Slots AC UK
MCSF-**RJ45**-**M02C**	i-Net Networks Media Converter Standalone 100 Mbps Twisted Pair RJ45 Multimode 2KM SC AC UK Plug
MCSG-**RJ45**-**M55C**	i-Net Networks Media Converter Standalone 1000 Mbps Twisted Pair RJ45 Multimode 550m SC AC UK Plug
MCRF-**RJ45**-**M02C**	i-Net Networks Media Converter Rack Module 100 Mbps Twisted Pair RJ45 Multimode 2KM SC AC UK Plug
MCRG-**RJ45**-**M55C**	i-Net Networks Media Converter Rack Module 1000 Mbps Twisted Pair RJ45 Multimode 550m SC AC UK Plug
RJ45	**RJ45**—Twisted Pair RJ45, **2348**—RS232/485, **5062**—Multimode
M02C	**M55C**—Multimode 550m SC (for 1000Mbps), **M02C**—Multimode 2KM SC (for 100Mbps), **S20C**—Singlemode 20KM SC, **S40C**—Singlemode 40KM SC, **S60C**—Singlemode 60KM SC, **S80C**—Singlemode 80KM SC, **S1HC**—Singlemode 100KM SC, **SH2C**—Singlemode 120KM SC

Ethernet Switch

Description

The Ethernet Switch provides 10/100Mbps Auto-Negotiation RJ45 ports. All ports support Auto MDI/MDIX function, eliminating the need for crossover cables or Uplink ports. The Switch is Plug-and-Play and can be simply plugged into a server, a hub or a switch. The Switch delivers superior performance.

Feature

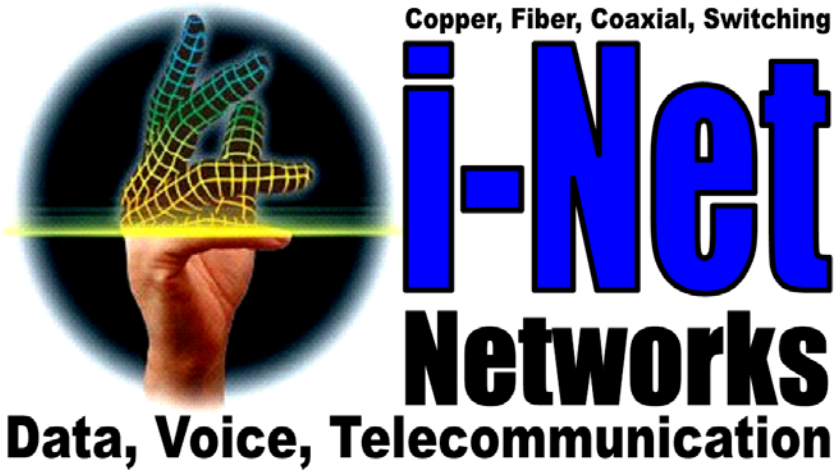
- Complies with IEEE802.3, IEEE802.3u standards.
- Supports IEEE802.3x flow control for Full Duplex mode and back-pressure for half-duplex mode.
- 10/100Mbps Auto-Negotiation RJ45 ports supporting Auto-MDI/MDIX.
- Supports Store and Forward with independent port bandwidth.
- Supports MAC address auto-learning and auto-aging.
- LED indicators for monitoring Power, Link, Activity.
- Plastic/Metal case, desktop/wall-mounting design.
- External/Internal Power Adapter supply.

Specification

Standards	IEEE802.3 10Base-T, IEEE802.3u 100Base-TX
Network Media	10Base-T: UTP category 3, 4, 5 cable (maximum 100m) EIA/TIA-568 100Ù STP (maximum 100m) 100Base-Tx: UTP category 5, 5e cable (maximum 100m) EIA/TIA-568 100Ù STP (maximum 100m)
Number of Ports	8, 24, 48
LED indicators	10/100M Link/Act and Power
Transfer Method	Store-and-Forward
Switching Capacity	8 Port—1.6G; 24 Port—4.8G and 48 Port—9.6G
MAC Address	4K (8 Port), 8K (24 and 48 Ports)
MAC Address Learning	Automatic learning, Automatic Update
Frame Filtering and Forward Rate	10Mbps: 14880pps, 100Mbps: 148800pps
Dimensions (W×D×H)	180×104×30mm (8 Port), 440×205×44mm (24 and 48 ports)
Environment	Operating Temperature: 0 C~40 C (32 F~104 F) Storage Temperature: -40 C~70 C (-40 F~158 F) Operating Humidity: 10%~90% non-condensing Storage humidity: 5%~90% non-condensing
Input	Power 180-260V AC 50-60Hz
Mounting	8 Port — Table Top or Wall Mount; 24 and 48 Ports — 19” Rack Mount

Ordering Information

ES-F08-000	i-Net Networks Ethernet Switch 10/100 Mbps 8 Port Desktop 220/110V DC Adapter UK
ES-F24-000	i-Net Networks Ethernet Switch 10/100 Mbps 24 Port 19" Rack Mount 220/110V AC UK
ES-F48-000	i-Net Networks Ethernet Switch 10/100 Mbps 48 Port 19" Rack Mount 220/110V AC UK


Copper, Fiber, Coaxial, Switching
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Networks
Data, Voice, Telecommunication