CCm

Data Cables and Accessories

CAT 6 UTP
Data Cable Project References

No	Project Name	Developer/M-Con/E-con	Status
	Private Residential		
1.	The Florence Residence Showflat	Logan Property	Completed
2.	Dairy Farm Residences Showflat	UED Residential P/L	On-Going
3.	D'Leedon Residences	MCL Land	On-Going
4.	Parkwood Collection	Fantasia Investment Holdings	On-Going
5.	HDB Punggol North C4	Surbana Jurong/Right Construction/ JY Electrical	On-Going
6.	HDB Kallang Whampoa C43	Surbana Jurong/Right Construction/ JY Electrical	On-Going
7.	Arena Residences	Roxy-Pacific Holdings/Star Engineering /Atto	On-Going
8.	RV Altitude Condominium	Roxy - Pac / Pal-link / Triumph Electrical	On-Going
9.	Tedge Condominium	Macly/ Pal-link / Triumph Electrical	On-Going
10.	Iveria Condominium	Macly/ Pal-link / Triumph Electrical	On-Going
	Commercial		
1.	Orchard Parade Hotel	Far East Hospitality	Completed
2.	NOL Building	CMACGM Group	Completed
3.	Tuas Check Point	Immigration & Checkpoints Authority	Completed
4.	15 Kim Chuan Terrace	OP3 Creative Pte Ltd	Completed
5.	Oxley Biz Hub	Oxley Biz Hub	Completed
6.	Wee Hur Development	Wee Hur Development	Completed

CAT5e Data Cable

Short for Category 5 Enhanced, CAT5e network cabling is used as a cabling infrastructure for 10BASE-T (Ethernet), full duplex 100BASE-TX (Fast Ethernet) and 1000BASE-T (Gigabit Ethernet, or GbE) networks. The CAT5e standard provides performance of up to 100 MHz and can be used up to a maximum length of 100 meters.

CAT5e cables typically consist of four unshielded twisted pairs (UTP) of copper wire terminated by RJ45 connectors.

CAT5e cable standard is backward compatible with the CAT3 and CAT5 cable standards.

CAT6 Data Cable

Short for Category 6, CAT6 network cabling is used as the cabling infrastructure for 10BASE-T (Ethernet), 100BASE-TX (Fast Ethernet), 1000BASE-T (Gigabit Ethernet, or GbE) and 10GBASE-T (10-Gigabit Ethernet, or 10 GbE) networks. The Cat 6 standard provides performance of up to 250 MHz and can be used up to a maximum length of 100 meters (55 meters for 10GBASE-T networks).

In addition to its support for higher performance than the CAT5 specification, the CAT6 standard also includes more stringent specifications for crosstalk and system noise.

CAT6 is backward compatible with the CAT3, CAT5 and CAT5e cable standards and it consists of four unshielded twisted pairs (UTP) of copper wire terminated by RJ45 connectors.

CCM Data Cables are manufactured to the following standards:
ANSI/TIA/EIA-568B
ISO/IEC11801
YD/T1019-2013

Flame retardant compliance and absence of hazardous substance:
EN 60332-1-2 CE
ROHS

CCM CAT5e UTP
4 Pair cable

Cable Construction

Conductor	24 AWG solid copper
Insulation	High Density Polyethylene (HDPE)
Number of Pairs	4

Pair identification

Pair Colour Code	Orange/white orange
	Blue/white blue
	Green/white green
	Brown/white brown
Core Diameter	0.91mm ±0.03mm
Sheath Material	Low Smoke Halogen Free (LSHF)
Standard Sheath Colour	Grey

Electrical Characteristics

DC Resistance	93 Ω /KM
DC Resistance Unbalance	4%
Maximum Mutual Capacitance	5.6nF/100m
Delay Skew	≤45 ns/100m (@1.0MHz ~ 100MHz)
Velocity of Propagation	NVP 69%
Characteristic Impedance	100Ω±15Ω (@1.0MHz ~ 100MHz)

Cable Cat5e UTP

Standard Packing

	305m/roll
Carton Size	355mm*355mm*215mm
Weight	±9.5KG

Physical Characteristics

Outside Diameter	5.0mm ± 0.02mm
Minimum Bend Radius	40mm
Temperature Range	-20°C to 70°C
Weight (kg/km)	±27.8kgs/km

CCM Cat6 UTP
4 Pair cable

Cable Construction

Conductor	23 AWG Bare Solid Copper (BC)
Insulation	High Density Polyethylene (HDPE)
Number of Pairs	4

Pair identification

Pair Colour Code	Orange/white orange
	Blue/white blue
	Green/white green
	Brown/white brown
Core Diameter	1.02±0.03mm
Sheath Material	Low Smoke Halogen Free (LSHF)
Standard Sheath Colour	Grey

Electrical Characteristics

DC Resistance	85 Ω /KM
DC Resistance Unbalance	4%
Maximum Mutual Capacitance	5.6nF/100m
Delay Skew	≤45 ns/100m (@1.0MHz~250MHz)
Velocity of Propagation	NVP 69%
Characteristic Impedance	100Ω±15Ω (@1.0MHz ~ 250MHz)

Cable Cat6 UTP

Standard Packing

	305m/roll
Carton size	400mm*400mm*230mm
Weight	12.3kg

Phusical Characteristics

Outsider Diameter	6.0mm ± 0.02mm
Minimum Bend Radius	50mm
Temperature Range	-20°C to 70°C
Weight (kg/km)	±38.7kgs/km

Accessories

RUBBER BOOT

TPPRJ45RB.C	CCM RUBBER BOOT FOR RJ45 BLUE (100/PK)
TPPRJ45RB.G	CCM RUBBER BOOT FOR RJ45 GREY (100/PK)
TPPRJ45RB.H	CCM RUBBER BOOT FOR RJ45 WHITE (100/PK)
TPPRJ45RB.B	CCM RUBBER BOOT FOR RJ45 YELLOW (100/PK)

KEYSTONE MODULE
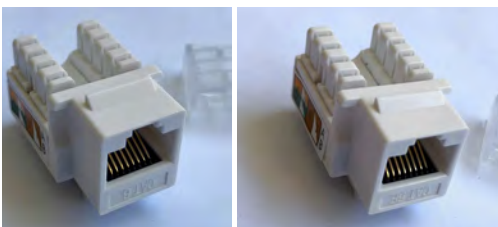
TPKRJ45C6.CCM	CCM CAT6 KEYSTONE MOD (10PCS/PK)
TPKRJ45SC.CCM	CCM K-10 CAT5E KEYSTONE MOD

PLUG

TPPRJ45.NBO	CCM RJ45 PLUG
TPPRJ45C6.	CCM CAT 6 RJ45 PLUG (100PCS/PK)
TPPRJ11.	CCM RJ11 PLUG

FACE PLATE

TPPL01.NBO	CCM 1 PORT FACE PLATE SS340-01
TPPL02.NBO	CCM 2 PORT FACE PLATE SS340-02
TPPL04.EX-	CCM 4 PORT FACE PLATE

TOOLS

CRIMPING TOOL

CTORJ4511.CCM	CCM GT568R RJ45+RJ11 CRIMPING TOOL

PUNCH DOWN TOOL

TPKRJ45C6.CCM	CCM CAT6 KEYSTONE MOD (10PCS/PK)
TPKRJ45SC.CCM	CCM K-10 CAT5E KEYSTONE MOD

CABLE STRIPPER

HWCC.EX-	LY-318 CABLE STRIPPER