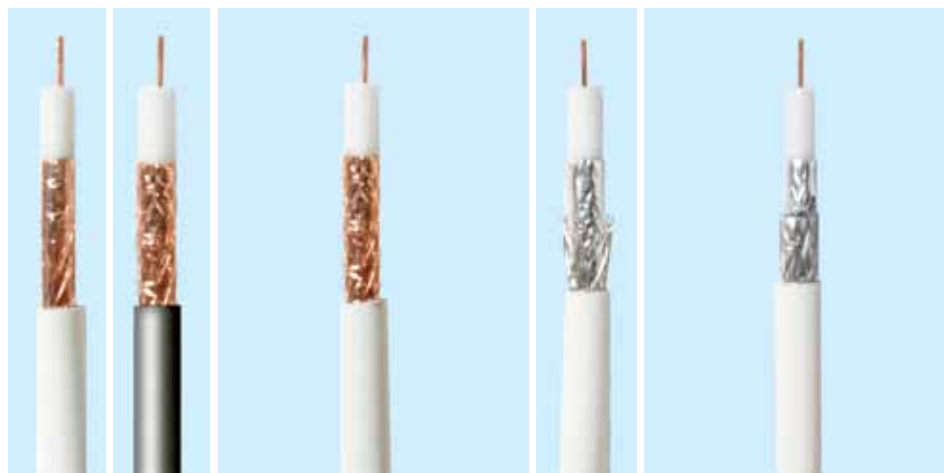


COAXIAL CABLES

Indoor Distribution Cables

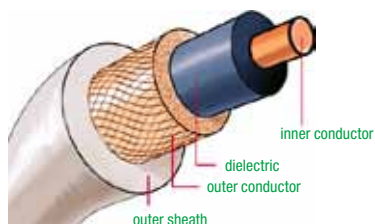


MODEL		CCH-175	CCI-174	CCI-175	CCSB175	CCIB175	CCI-179	CCI-190	CCS-190	CCIB190
REF.		2506	2016	2522	2050	2012	2521	2520	2018	2014
Inner conductor Diameter	mm	Cu 1.13	Cu 1.13	Cu 1.13	Cu 1.13	Cu 1.13	Cu 1.10	Cu 1	Cu 1	Cu 1
Dielectric Diameter	mm	PE 4.8	PE 4.8	PE 4.8	PE 4.8	PE 4.8	PE 5	PE 4.6	PE 4.6	PE 4.6
Outer conductor Diameter	mm	Cu (tape) + Cu (braid) 6,1	Cu (tape + Cu (braid) 6,1	Cu (tape) + Cu (braid) 6,1	Cu (tape) + Cu (braid)* 6,1	Cu (tape) + Cu (braid) 6,1	Al (tape) + Al (braid) 6,3	Al (tape) + Al (braid) 5	Al (tape) + Al (braid)* 5	Al (tape) + Al (braid) 5
Outer sheath Diameter	mm	white polyolefin (LSOH)** 6.8	PVC black 6.1	PVC white 6.8	PVC white 6.8	PVC white 6.8	PVC white 7	PVC white 6.8	PVC white 6.8	PVC white 6.8
Attenuation/100m										
47 MHz		3.7	3.7	3.7	3.7	3.7	4.6	4.9	4.9	4.9
100 MHz		5.3	5.3	5.3	5.3	5.3	6.0	6.5	6.5	6.5
230 MHz		8.0	8.0	8.0	8.0	8.0	8.9	9.5	9.5	9.5
470 MHz		11.9	11.9	11.9	11.9	11.9	13.2	14.0	14.0	14.0
862 MHz		16.6	16.6	16.6	16.6	16.6	18.0	19.6	19.6	19.6
950 MHz		17.5	17.5	17.5	17.5	17.5	19.5	21.0	21.0	21.0
1750 MHz		24.5	24.5	24.5	24.5	24.5	27.0	29.4	29.4	29.4
2150 MHz		27.5	27.5	27.5	27.5	27.5	29.8	32.5	32.5	32.5
Characteristics impedance	Ω	75 ±3								
Supply unit		(4x) reel 100 m		(1x) reel 250 m	(1x) reel 250 m	(4x) reel 100 m	(4x) reel 100 m	(4x) reel 100 m	(1x) reel 250 m	

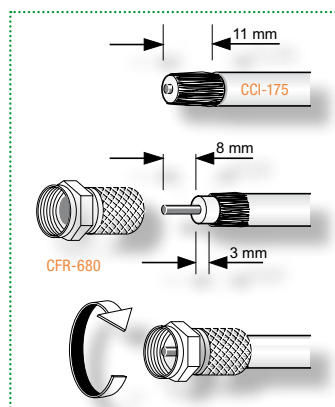
All the cables are manufactured using the Physical Process. Advantages: high mechanical strength, optimum electrical isolation and good stability of characteristics over time.

*Braid is highly thick (coverage factor: 70%).

**LSOH: Low Smoke Zero Halogen. Outer sheath of the CCH-175 does not contain halogens. It is flame retardant (EN/IEC 60332-3), the density of the smoke produced when the cable is burnt is very low (EN/IEC 61034-2) and the fumes are nontoxic (IEC 60754-2).



Preparing the cable CCI-175 to fit the CTF-125 connector



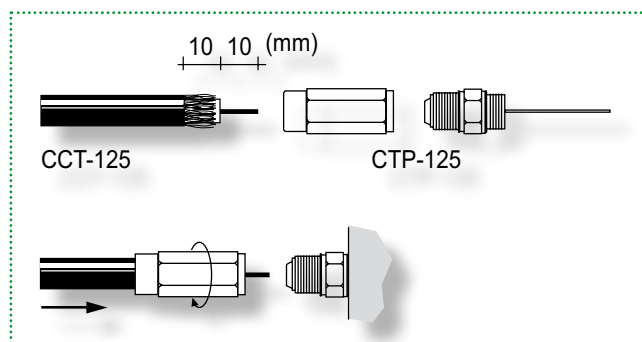
COAXIAL CABLES

CATV Trunk&Feeder Cables



MODEL		CCT-171	CCT-125	CCTB125	CCT-650
REF.		2505	2514	2013	2507
Inner conductor (copper) / diameter	mm	1.10	1.65		3.15
Dielectric (Foam polythene) / diameter	mm	5	7.1		13
Outer conductor / diameter	mm	Al + Al / 6.3	Al + Cu / 7.8		Al (tube) /13.7
Characteristics impedance	Ω	75 ±3			
Outer sheath (black polythene) / diameter	mm	7	10.2		15.4
Max Attenuation at 20°C					
f = 100 MHz	dB	6.0	4.6		2.1
200 MHz		8.2	6.2		3.0
500 MHz		13.4	10.1		4.9
600 MHz		14.4	11.0		5.4
750 MHz		16.6	12.3		6.1
862 MHz		18.0	13.1		6.5
950 MHz		19.5	15.2		7.5
1750 MHz		27.0	20.5		10.2
2150 MHz		29.8	23.0		11.5
DC resistance of: - inner conductor - outer conductor	Ω/100m	1.72 1.14	0.9 1.2		0.33 0.19
Velocity ratio of propagation	%	77			88
Nominal capacitance	pF/m	55			50
Minimum bending radius	cm	7	8		13
Pulling tension	daN	40	60		100
Weigth	kg/100m	4.2	8.6		20
Supply uit		(6x) reel 100m	(1x) reel 500m	(1x) reel 200m	—

Preparing the cable CCT-125 to fit the CTP-125 connector



CABLE CONNECTORS

Connectors for Indoor Distribution Cables

MODEL	REF.	DESCRIPTION
F CONNECTORS		
CFR-680	2377	Screw-on plug. Use cable: CCS, CCH, CCI, CCIB, CCT-171.
CTF-190	2368	Crimp plug. Use cable: CCS, CCH, CCI, CCIB, CCT-171.
TOOL		
UCF-170	1847	Crimp pliers for CTF-190 connector.
F ADAPTERS		
FDH-215	2371	Joining connector: F female - F female.
FRH-081	2350	Joining connector: F male - F male.
ARF-100	2360	Fast-fit adapter, F male.
CFD-100	1508	90 degree adapter: Fast-fit elbow F connector..
FAR-900	2351	90 degree adapter: F male - F female.
IEC CONNECTORS		
CAD	1502	Elbow plug.
CHD-950	1503	Elbow jack.
CONNECTOR TYPE ADAPTERS		
TBF-101	2364	F female - BNC male.
TIF-100	2365	IEC male - F female.
TIF-102	2366	IEC female - F male.



2377



2368



2371



2351



2350



2360



2366



1502



1503

Connectors for CATV Trunk & Feeder Cables

MODEL	REF.	DESCRIPTION
F CONNECTORS		
CTF-125	2513	Crimp F plug. Material: nickeled brass. Use cable: CCT-125.
CPF-650	2689	F plug. Material: nickeled brass. Use cable: CCT-650.
CMC-650	1382	Pin 5/8". Chromate coating aluminium. Use cable: CCT-125.
CTP-125	2512	Pin 5/8". Nickeled brass. Use cable: CCT-125.
CLP-125	2510	5/8". Chromate coating aluminium. Use cable: CCT-650.
CLP-540	2511	Pin 5/8". Chromate coating aluminium. Use cable: CCT-650.
ADAPTERS-DOUBLE		
SAI-311	1640	F Double female. Nickeled brass.
EHP-162	1538	5/8" Double female. Nickeled brass.
CMM-580	1383	5/8" Double male. Nickeled brass.
ADAPTADERS		
TCF-580	1516	F female - 5/8". Nickeled brass .
TTF-090	2517	5/8" female - F male. Nickeled brass.
TOOLS		
UCF-170	1847	Hex crimp tool for CTF-125 connector.
PLC-650	1851	for preparing the CCT-650 cable to fit pin 5/8" connectors.
75Ω LOAD		
CTF-075	2221	F type. For loading an F port. Idem a 5/8" port through the TCF-580 adapter. Nickeled brass.



1382



2511



1383



1516



2221



1847

DATA TRANSMISSION CABLES

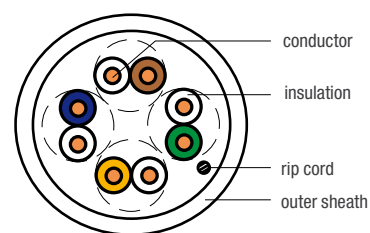
UTP (unshielded twisted pair) Cables

MODEL	REF.	DESCRIPTION
CPI-004U	5022	UTP cable, 4-pair, Cat 5E, 100 MHz.
CPI-604U	5023	UTP cable, 4-pair, Cat 6, 250 MHz, halogen free.

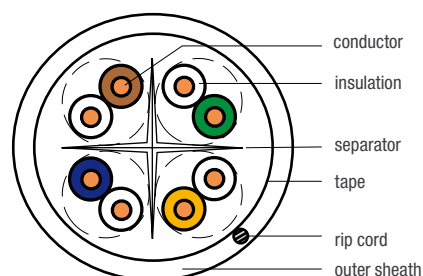
DESCRIPTION		CPI-004U 5022	CPI-604U 5023
CONDUCTOR	Number of pairs	4	
	Total number of conductors	8	
	Conductor material	Solid bare copper	
	Wire gauge	24 AWG	23 AWG
	Conductor diameter	≥ Ø 0.51 mm	≥ Ø 0.57 mm
	Elongation rate	≥ 15%	
INSULATE	Insulate material	HDPE - Polyethylene	
	Nominal insulate wall thickness	0.18 mm	0.19 mm
	Insulate diameter	Ø 0.88 ±0.05 mm	Ø 0.96 ±0.05 mm
	Elongation rate	≥ 300	
	Pair colour	Pair 1: Blue & White/Blue Pair 2: Orange & White/Orange Pair 3: Green & White/Green Pair 4: Brown & White/Brown	
CABLING	Order of the pair	see picture	
	Cross filler	—	PE
	Tape	—	PET - 0.02x20 mm
OUTER SHEATH	Sheath material	PVC	LSZH
	Sheath colour	White	
	Rip cord	200Dx3	
	Min thickness	0.40 mm	
	Nominal diameter	Ø 5.20 ±0.30 mm	Ø 6.20 ±0.30 mm



CPI-004U



CPI-004U



CPI-604U

ELECTRICAL CHARACTERISTICS		CPI-004U 5022	CPI-604U 5023
Max conductor DC resistance 20°C	Ω/100m	9.5	7.5
Unbalance of pair DC resistance 20°C	%	≤ 2.5	
Dielectric strength between pairs	kv/min	≤ 1.0	
Insulation resistance	MΩ·km	≥ 500	
Capacitance	nf/100m	≤ 5.6	—
Unbalance of capacitance	pf/100m	≤ 330	
Characteristics impedance	Ω	100 ±15	
Return loss	dB	≥ 20.0	
Max delay	ns/100m	45.0	
Max insertion loss	1 MHz	2.0	2.0
	4 MHz	4.0	3.8
	10 MHz	6.4	6.0
	16 MHz	8.2	7.5
	20 MHz	9.2	8.4
	31.25 MHz	11.6	10.6
	62.5 MHz	16.8	15.4
	100 MHz	21.7	19.8
	200 MHz		29.0
	250 MHz		32.8
Min Near End Cross Talk	1 MHz	65.3	74.3
	4 MHz	56.3	65.3
	10 MHz	50.3	59.3
	16 MHz	47.2	56.2
	20 MHz	45.8	54.8
	31.25 MHz	42.9	51.9
	62.5 MHz	38.4	47.4
	100 MHz	35.3	44.3
	200 MHz		39.8
	250 MHz		38.3

OTHER CHARACTERISTICS	CPI-004U 5022	CPI-604U 5023
Operating temperature	-20° to +75°C	
Min bend radius	8 x D	
Net weight	28 kg/km	40 kg/km
Supply unit	(1x) reel 1000 ft	

