



CATALOG

- CABLES
- MULTISWICH
- CABINETS
- PBXs

V.2

CERTIFICATE AND PATENT

EAC

**UK
CA**



FLUKE



CPR



CE



INTRODUCTION

ETHERCO is a UK brand dedicated to ensuring your network runs seamlessly, so you can focus on growing your business with confidence.

At ETHERCO, we strive to be a leader in modern networking by delivering exceptional quality that exceeds customer expectations.

Our products are expertly designed to meet all your networking needs, offering reliable performance and cutting-edge technology.

Every tool we provide functions with precise parameters as outlined in their datasheets, ensuring accuracy and efficiency.

Each component is meticulously crafted to fit the finest details, seamlessly linking together to build a robust and reliable network.

PROCESS CONTROL

We maintain strict process control systems, covering every stage from supplier management to product delivery. Our RoHS-compliant management framework includes checks at critical stages like IQC (Incoming Quality Control), IPQC (In-Process Quality Control), and OQC (Outgoing Quality Control).

Our Quality Assurance (QA) and Quality Control (QC) teams, comprising highly skilled engineers, ensure thorough inspections of all raw materials, components, and finished products. This rigorous approach guarantees reliability and consistency in every product we offer.



INSPECTION CAPABILITY

To uphold our high standards of quality and reliability, ETHERCO utilizes advanced testing equipment in our dedicated quality inspection labs. From coating thickness testers and earth bonding testers to RoHS compliance checks and color difference meters, we ensure our products meet stringent requirements.

Every product undergoes daily testing to guarantee the level of quality and reliability that our customers trust and depend on.



QUALITY ASSURANCE

At ETHERCO, we are committed to continuous improvement of our products, services, and processes. Our focus on quality management ensures that we exceed customer expectations while adhering to internationally recognized standards, such as ISO 9001:2015 certification. With a dedication to sustainable practices and environmental protection, we aim to deliver solutions that are both dependable and environmentally responsible.





NETWORK CABLE

RoHS LSZH Jacket

23AWG

Category 6A U/UTP

OFC COPPER

Product description:

Solid Bare copper conductor

RoHS / REACH complied LSZH Jacket

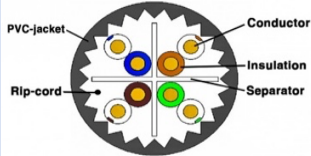
Installation temperature : -30°C~+70°C

The category 6A UTP system complies with all of the PVC-jacket-performance requirements for current and proposed applications such as Gigabit Ethernet (1000BASE-T), 10/100BASE-T, ISDN, analog and digital video, analog and digital voice (VoIP), and exceeds all requirements for IEEE 802.3an 10 Gigabit Ethernet on all

Application:

- 10GBASE-T Ethernet applications
- Indoor/Outdoor Ethernet applications
- Power Over Ethernet (POE) indoor application

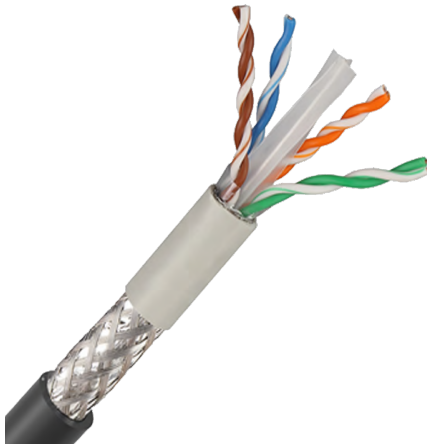
Content of the Data sheet

model	EC-NC-CAT6A-305A					
Conductor	Ø 0.565 OFC Copper					
Insulation	Material	HDPE	Sheath Physical Properties	Before Aging Tensile Strength (Mpa) ≥ 10.0 Elongation (%) ≥ 350 Aging Period (°C ×hrs) 100 °C ×24h×10d After Aging Elongation (%) ≥ 300 Cold bend (-20 ±2 °C × 4h) 8×Cable O.D, No visible cracks		
	Diameter	1.0 mm				
Sheath	Thickness	0.60±0.02 mm			Electrical Characteristics (20 °C)	1-500 MHz Impedance (Ω) : 100 ± 15Ω 1-500 MHz Delay Shew (ns/100m) ≤45 Unbalanced-to-ground capacitance (pf/100m) max 330 DC Resistance (Ω /100m) max 9.38 Conductor Resistance (Ω /1Km) ≤ 71
	External O. D	6.5 ± 0.2 mm				
	Surface	Clean, Frap				
	Material	LSZH				
	Color	According to the requires				
Surface printing	Letter height	2.5±0.3mm				
	Color	White				
	Print error & Space	≤±0.5%, 1m				
Core color	1-White-Blue/Blue	2-White-Orange/Orange				
	3-White-Green/Green	4-White-Brown/Brown				
Packing	Wooden drum,cartoon					
	350×350×210 mm					
Packing length	305±1.0m					
Rip-cord	Yes (nylon)					

EC-NC-CAT6D-305A

NETWORK CABLE CAT6

ETHERCO
QUALITY FIRST



NETWORK CABLE Double Jacket 23AWG Category 6 SF/UTP OFC COPPER

Product description:

Solid Bare copper conductor

Rohs / REACH complied PE Jacket

Installation temperature : -30°C~+70°C

Application:

100Base-TX

100Base-T

100VG-AnyLAN

1000Base-T (Gigabit Ethernet)

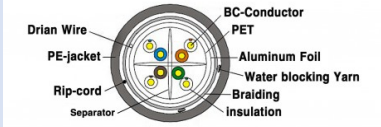
1000Base-TX

OSP

ATM

Noisy Environments

Content of the Data sheet

model	EC-NC-CAT6D-305A						
Conductor	Ø 0.56 OFC Copper						
Insulation	Material	HDPE					
	Diameter	1.0 mm					
Inner screening	Aluminum Foil :0.075*25mm		Sheath Physical Properties	Before Aging Tensile Strength (Mpa) ≥ 10.0 Elongation (%) ≥ 350			
Outer screening	Braid: 7*16 0.12 mm Coverage: ≥80% (Aluminum Magnesium alloy)						
Sheath	Thickens Inner jacket	0.40±0.02 mm					
	Inner jacket	7.0 ± 0.2 mm					
	Material	PVC					
	Thickens outer jacket	0.60±0.02 mm					
	outer jacket	8.0 ± 0.2 mm					
	Surface	Clean, Frap					
Surface printing	Material	PE	Electrical Characteristics (20 °C)	Aging Period (°C ×hrs) 100 °C ×24h×10d			
	Color	Black					
	Letter height	2.5±0.3mm					
	Color	White					
Core color	Print error & Space	≤±0.5%, 1m			After Aging Elongation (%) ≥ 300		
	1-White-Blue/Blue	2-White-Orange/Orange					
Core color	3-White-Green/Green	4-White-Brown/Brown				Cold bend (-20 ±2 °C × 4h) 8×Cable O.D, No visible cracks	
	Wooden Tray & Carton						
Packing	305±1.0m						1-250MHz Impedance (Ω) : 100 ± 15Ω 1-250MHz Delay Shew (ns/100m) ≤45 Unbalanced-to-ground capacitance (pf/100m) max 330 DC Resistance (Ω /100m) max 9.38 DC Conductor Resistance unbalance (%) max 5.0
Packing length	Yes (nylon)						
Rip-cord	Yes						
Drain wire							



NETWORK CABLE

Single Jacket 23AWG

Category 6 SF/UTP

OFC COPPER

Product description:

Solid Bare copper conductor

Rohs / REACH complied PE Jacket

Installation temperature : -30°C~+70°C

Application:

100Base-TX

100Base-T

100VG-AnyLAN

1000Base-T (Gigabit Ethernet)

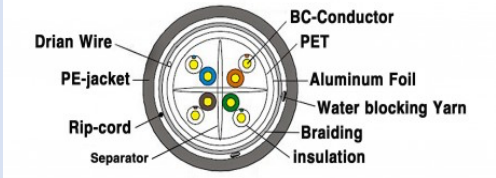
1000Base-TX

OSP

ATM

Noisy Environments

Content of the Data sheet

model	EC-NC-CAT6S-305A					
Conductor	Ø 0.56 OFC Copper					
Insulation	Material	HDPE	Sheath Physical Properties	Before Aging Tensile Strength (Mpa) ≥ 10.0 Elongation (%) ≥ 350		
	Diameter	1.0 mm				
Inner screening	Aluminum Foil :0.075*25mm					
Outer screening	Braid: 6*16 0.12 mm Coverage: ≥80% (Aluminum Magnesium alloy)					
Sheath	Thickness	0.60±0.02 mm			Electrical Characteristics (20 °C)	Aging Period (°C ×hrs) 100 °C ×24h×10d After Aging Elongation (%) ≥ 300 Cold bend (-20 ±2 °C × 4h) 8×Cable O.D, No visible cracks 1-250MHz Impedance (Ω) : 100 ± 15Ω 1-250MHz Delay Shew (ns/100m) ≤45 Unbalanced-to-ground capacitance (pf/100m) max 330 DC Resistance (Ω /100m) max 9.38 DC Conductor Resistance unbalance (%) max 5.0
	External O. D	7.8 ± 0.2 mm				
	Surface	Clean, Frap				
	Material	PE				
	Color	Black				
Surface printing	Letter height	2.5±0.3mm				
	Color	White				
	Print error & Space	±0.5%, 1m				
Core color	1-White-Blue/Blue	2-White-Orange/Orange				
	3-White-Green/Green	4-White-Brown/Brown				
Packing	Wooden Tray & Carton					
Packing length	305±1.0m					
Rip-cord	Yes (nylon)					
Drain wire	Yes					

EC-NC-CAT6U-305A

NETWORK CABLE CAT6

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NETWORK CABLE

RoHS PVC Jacket
23AWG
Category 6 U/UTP
OFC COPPER

Product description:

Solid Bare copper conductor

RoHS / REACH complied PE Jacket

Installation temperature : -30°C~+70°C

Application:

100Base-TX

100Base-T

100VG-AnyLAN

1000Base-T (Gigabit Ethernet)

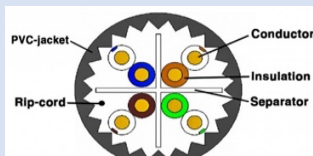
1000Base-TX

OSP

ATM

Noisy Environments

Content of the Data sheet

model	EC-NC-CAT6U-305A			
Conductor	Ø 0.56 OFC Copper			
Insulation	Material	HDPE		
	Diameter	1.0 mm		
Sheath	Thickness	0.60±0.02 mm	Sheath Physical Properties	Before Aging Tensile Strength (Mpa) ≥ 10.0 Elongation (%) ≥ 350
	External O. D	6.2 ± 0.2 mm		Aging Period (°C ×hrs) 100 °C ×24h×10d After Aging Elongation (%) ≥ 300 Cold bend (-20 ±2 °C × 4h) 8×Cable O.D, No visible cracks
Surface printing	Surface	Clean, Frap	Electrical Characteristics (20 °C)	1-250MHz Impedance (Ω) : 100 ± 15Ω
	Material	PVC		1-250MHz Delay Shew (ns/100m) ≤45
	Color	According to the requires		Unbalanced-to-ground capacitance (pf/100m) max 330
	Letter height	2.5±0.3mm		DC Resistance (Ω /100m) max 9.38
Core color	Color	Black		DC Conductor Resistance unbalance (%) max 5.0
	Print error & Space	≤±0.5%, 1m		
Packing	1-White-Blue/Blue	2-White- Orange/Orange		
	3-White-Green/Green	4-White-Brown/Brown		
Packing length	350×350×210 mm			
Rip-cord	305±1.0m			
	Yes (nylon)			

EC-CC-RG59D-A

COAXIAL CABLES CCTV DOUBLE JACKET



COAXIAL CABLES

Double Jacket CCTV

RG59+2x0.5mm²

OFC COPPER

APPLICATION

They are used in cctv and camera systems, video, sound and signal transmission in short range. It is used for foundation without the need for pipe and in the pipe.

The image can be transmitted to distances of up to 500m for high-definition CCTV 8MP.

TECHNICAL SPECIFICATION

MODEL	EC-CC-RG59D-A		
Cable Construction	Conductor	Coaxial	Ø 0.7 mm Bare Copper
		signal	0.50 mm ² Stranded Electrolytic Copper
	Insulation	Coaxial	Ø 2.4 mm Gas Injected solid PE
		signal	PVC Compound (red & black)
	Coaxial Screen	Shielding1 st	Cu-Pet Foil (100% Coverage)
		Shielding2 nd	Annealed Copper Wire Braiding (18X0.18 CU)
	Coaxial Sheath	PVC compound white	
	Overall Screen	Screen 1 st	Nylon (100% Coverage)
		Screen 2 nd	Al-Pes Tape (100% Coverage)
	Outer Sheath	PVC compound Black ≤ Ø 6 mm	
PACKAGING	50-100-250-500 m		
Impedance	75+3 Ω		
Capacitance	57 pF/m		
Velocity of Propagation	78 %		
Operating temperature	-40 +70 C ⁰		
Insulation Resistance	> 2 GΩxkm		

EC-CC-RG58-C

COAXIAL CABLES CCTV PIPE CABLE

COAXIAL CABLES
CCTV
RG58 2x0.22mm²
PIPE CABLE
80% COPPER



APPLICATION

They are used in CCTV and camera systems, video, sound and signal transmission in short range. It is used for foundation in the pipe. The image can be transmitted to distances of up to 350m for high definition CCTV 8MP.

TECHNICAL SPECIFICATION

MODEL	EC-CC-RG58-C		
Cable Construction	Conductor	Coaxial	Ø 0.5 mm Bare Copper
		signal	0.22 <i>mm</i> ² Stranded Electrolytic Copper
	Insulation	Coaxial	Ø 2.6 mm Gas Injected solid PE
		signal	PVC Compound (red & black)
	Coaxial Screen	Shielding1 st	Al-Pes Tape (100% Coverage)
		Shielding2 nd	Annealed Aluminum Wire Braiding (7X0.18 AL)
	Overall Screen	Screen 1 st	Nylon (100% Coverage)
		Screen 2 nd	Al-Pes Tape (100% Coverage)
	Outer Sheath	PVC compound Black < Ø 5.8 mm	
PACKAGING	50-100-250-500 m		
Impedance	75+3 Ω		
Capacitance	57 pF/m		
Velocity of Propagation	78 %		
Operating temperature	-40 +70 C ⁰		

EC-CC-RG58-A

COAXIAL CABLES CCTV PIPE CABLE

ETHERCO[®]
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COAXIAL CABLES
CCTV
RG58 2x0.22mm²
PIPE CABLE
OFC COPPER



APPLICATION

They are used in CCTV and camera systems, video, sound and signal transmission in short range. It is used for foundation in the pipe. The image can be transmitted to distances of up to 500m for high definition CCTV 8MP.

TECHNICAL SPECIFICATION

MODEL	EC-CC-RG58-A		
Cable Construction	Conductor	Coaxial	Ø 0.5 mm Bare Copper
		signal	0.22 <i>mm</i> ² Stranded Electrolytic Copper
	Insulation	Coaxial	Ø 2.6 mm Gas Injected solid PE
		signal	PVC Compound (red & black)
	Coaxial Screen	Shielding1 st	Al-Pes Tape (100% Coverage)
		Shielding2 nd	Annealed copper Wire Braiding (7X0.18 cu)
	Overall Screen	Screen 1 st	Nylon (100% Coverage)
		Screen 2 nd	Al-Pes Tape (100% Coverage)
Outer Sheath	PVC compound Black < Ø 5.8 mm		
PACKAGING	50-100-250-500 m		
Impedance	75+3 Ω		
Capacitance	57 pF/m		
Velocity of Propagation	78 %		
Operating temperature	-40 +70 <i>C</i> ⁰		

EC-CC-RG6U6-A

COAXIAL CABLES RG6 U/6



COAXIAL CABLES RG6 U/6 OFC COPPER

APPLICATION

It is used as a distribution cable for indoor CATV, CCTV systems and as a connection cable for satellite systems where lower attenuation is required.

TECHNICAL SPECIFICATION

MODEL	EC-CC-RG6U6-A	
Cable Construction	Inner Conductor	Ø 1.02 mm Bare Copper
	Insulation	Ø 4.60 mm Gas Injected Skin/Foam/Skin PE
	1-Shielding	Cu-Pet Foil
	2-Shielding	Annealed Copper Wire Braiding (64X0.12 CU)
	Outer Sheath	Ø 6.60 mm PVC
	Color	compound Black & Green
PACKAGING	Reels:- 100m, 250m, 500m	
Impedance	75+3 Ω	
Capacitance	53 + 2 pF/m	
Velocity of Propagation	84 %	
Operating temperature	-40 +70 C ⁰	
Insulation Resistance	> 2 GΩxkm	
Operating Voltage	1300 V	
Test Voltage	3000 V	
Inner Conductor DCR	< 22.10 Ω/km	

EC-CC-RG6TR-A

COAXIAL CABLES RG6 U/6



COAXIAL CABLES RG6 U/6 TRISHIELD OFC COPPER

APPLICATION

It is used as a distribution cable for indoor CATV, CCTV systems and as a connection. PE sheath is used as a connection cable in outdoor and underground networks.

TECHNICAL SPECIFICATION

MODEL	EC-CC-RG6TR-A	
Cable Construction	Inner Conductor	Ø 1.02 mm Bare Copper
	Insulation	Ø 4.60 mm Gas Injected Skin/Foam/Skin PE
	1-Shielding	Cu-Pet Foil
	2-Shielding	Annealed Copper Wire Braiding (64X0.12 CU)
	3-Shielding	Cu-Pet Foil
	Outer Sheath	Ø 6.80 mm PVC
	Color	compound Black & orang
PACKAGING	Reels :- 100m, 250m, 500m	
Impedance	75+3 Ω	
Capacitance	53 + 2 pF/m	
Velocity of Propagation	84 %	
Operating temperature	-40 +70 C ⁰	
Insulation Resistance	> 2 GΩxkm	
Operating Voltage	1300 V	
Test Voltage	3000 V	
Inner Conductor DCR	< 22.10 Ω/km	

EC-FA-JYST-215A

FIRE ALARM CABLE

ETHERCO[®]
QUALITY FIRST



FIRE ALARM CABLE
J-Y(ST)Y LG
2X1.5 mm²+0.8mm
OFC COPPER

APPLICATION

- Instrumentation and Control Engineering -Industrial Electronics
- Computers and Office Machines
- Indoor Communication Systems
- Indoor Sound Systems -Security Systems

TECHNICAL SPECIFICATION

MODEL	EC-FA-JYST-215A		
Cable Construction	Conductor	IEC 60228; DIN VDE 0295; EN 60228 Class 1 Electrolytic Solid Copper	
	Insulation	EN 50290-2-21 PVC Compound	
	Color Code	VDE 0815	
	Stranding	Pair in Layers	
	Wrapping	Pes Tape	
	Screen	Tinned Drain Wire + Al-Pes Tape	
	Sheath	EN 50290-2-22 PVC Compound	
	Sheath Color	RAL 3000 Red	
PACKAGING	Reels: - 500m		
Conductor Resistance	24.6 OHM/KM @20 °C	Insulation Resistance	>100 MOHM KM
Test Voltage	1000 V	Capacitance Unbalance	? Max. 300 pF / 100 m
Mutual Capacitance	100 nf/km	Working Tempters	-30°C +70°C
Mi. Bending Radius	10 x D	Velocity	0,67
Working Voltage	300 V	FLAME RETARDANT TEST	IEC 60332-1-2, DIN EN 60332-1-2 , EN 60332-1-2



SIGNAL CONTROL CABLE

2X1 mm² LIH(ST)CH

OFC COPPER

APPLICATION

In places where electro-magnetic interference and influence exists in closed areas where people are densely populated

- Instrumentation and Control Engineering
- Industrial Electronics
- Computers and Office Machines
- Indoor Communication Systems
- Indoor Sound Systems
- In places where human life and valuable materials and equipment need to be protected

TECHNICAL SPECIFICATION

MODEL	EC-SC-LIHST-210A		
Cable Construction	Conductor	IEC 60228; DIN VDE 0295; EN 60228 Class 5 Stranded Electrolytic Bare Copper	
	Insulation	EN 50290-2-26 HFFR Compound	
	Color Code	DIN 47100	
	Stranding	In layers of optimum pitch	
	Wrapping	Pes Tape	
	Screen	Al-Pes Tape + Tinned Copper Braid	
	Sheath	EN 50290-2-27 HFFR Compound	
	Sheath Colour	RAL 7001 Grey	
	PACKAGING	Reels:- 500m	
Conductor Resistance	19.5 OHM/KM @20 °C	Test Voltage	2000 V
Mutual Capacitance	130 pf/km	Min.Bending Radius	15 x D
Working Voltage	300/500 V	Insulation Resistance	20 MΩxkm
Working Tempeture	-30°C +70°C		
FLAME RETARDANT TEST	IEC 60332-1-2,DIN EN 60332-1-2,EN 60332-1-2	EMC	ELEKTROMANYETİK UYUMLU ELECTROMAGNETIC COMPATIBILITY
SMOKE DENSITY TEST	IEC 61034-2,VDE 0482-1034-2,EN 61034-2	TEST ON CORROSIVENESS OF COMBUSTION GASES	IEC 60754-2,VDE 0482-754-2,EN 60754-2
HALOGEN FREE TEST	IEC 60754-1 VDE 0482-754-1 EN 60754-1	FLAME PROPAGATION TEST	IEC 60332-3-24 DIN EN 60332-3-24 EN 60332-3-24



SIGNAL CONTROL CABLE

2X1.5 mm² LIH(ST)CH

OFC COPPER

APPLICATION

In places where electro-magnetic interference and influence exists in closed areas where people are densely populated

- Instrumentation and Control Engineering
- Industrial Electronics
- Computers and Office Machines
- Indoor Communication Systems
- Indoor Sound Systems
- In places where human life and valuable materials and equipment need to be protected

TECHNICAL SPECIFICATION

MODEL	EC-SC-LIHST-215A		
Cable Construction	Conductor	IEC 60228; DIN VDE 0295; EN 60228 Class 5 Stranded Electrolytic Bare Copper	
	Insulation	EN 50290-2-26 HFFR Compound	
	Color Code	DIN 47100	
	Stranding	In layers of optimum pitch	
	Wrapping	Pes Tape	
	Screen	Al-Pes Tape + Tinned Copper Braid	
	Sheath	EN 50290-2-27 HFFR Compound	
	Sheath Colour	RAL 7001 Grey	
	PACKAGING	Reels:- 500m	
Conductor Resistance	13.3 OHM/KM @20 °C	Test Voltage	2000 V
Mutual Capacitance	140 pf/km	Min.Bending Radius	15 x D
Working Voltage	300/500 V	Insulation Resistance	20 MΩxkm
Working Tempeture	-30°C +70°C		
FLAME RETARDANT TEST	IEC 60332-1-2,DIN EN 60332-1-2,EN 60332-1-2	EMC	ELEKTROMANYETİK UYUMLU ELECTROMAGNETIC COMPATIBILITY
SMOKE DENSITY TEST	IEC 61034-2,VDE 0482-1034-2,EN 61034-2	TEST ON CORROSIVENESS OF COMBUSTION GASES	IEC 60754-2,VDE 0482-754-2,EN 60754-2
HALOGEN FREE TEST	IEC 60754-1 VDE 0482-754-1 EN 60754-1	FLAME PROPAGATION TEST	IEC 60332-3-24 DIN EN 60332-3-24 EN 60332-3-24

EC-TC-2 N -N A

TELECOMMUNICATION CABLE

ETHERCO[®]
QUALITY FIRST



TELECOMMUNICATION CABLE

NX2X0.5 mm² PDV

OFC COPPER

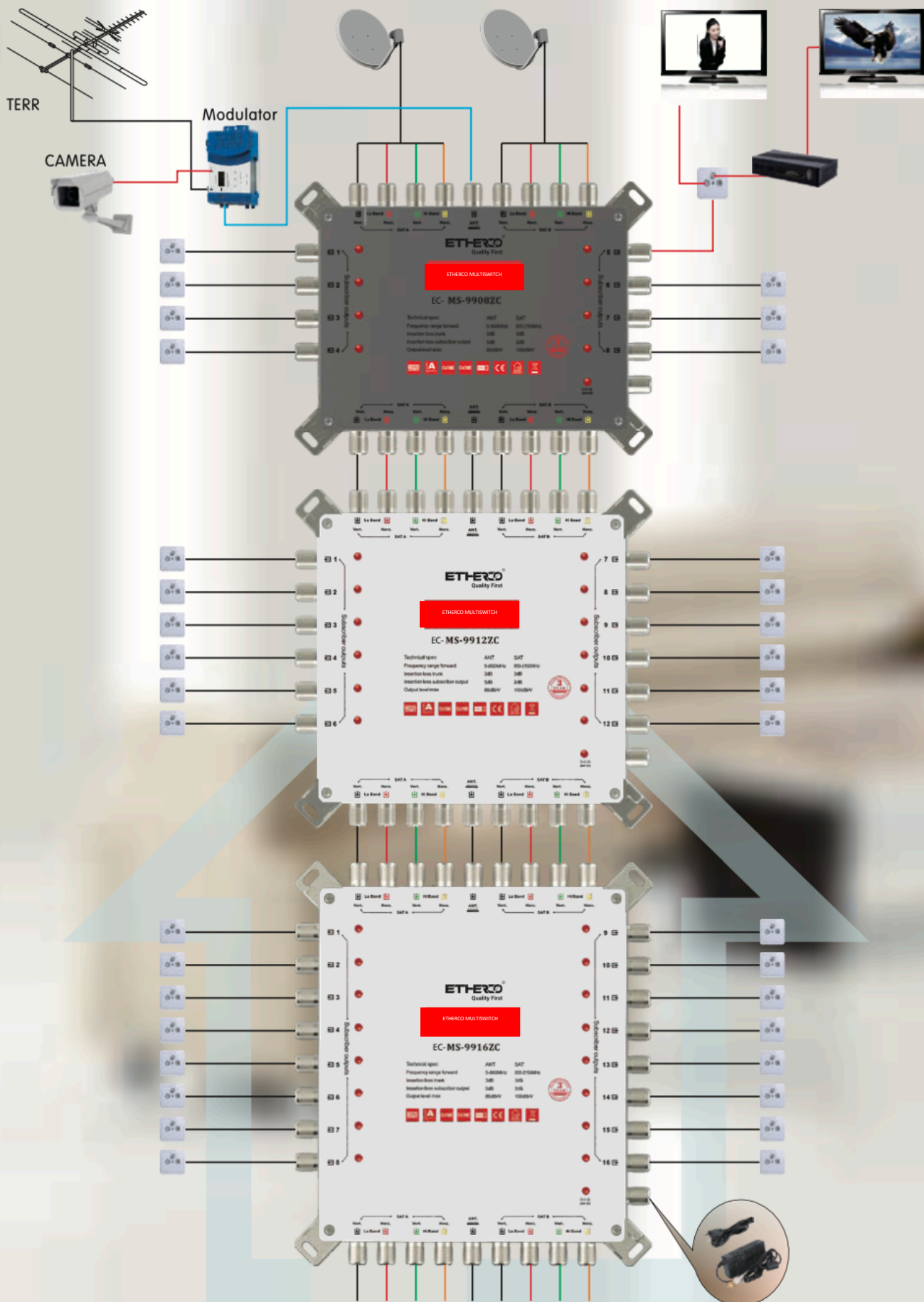
APPLICATION

In places where electro-magnetic interference and influence exists in closed areas where people are densely populated

- Instrumentation and Control Engineering
- Industrial Electronics
- Computers and Office Machines
- Indoor Communication Systems
- Indoor Sound Systems
- In places where human life and valuable materials and equipment need to be protected

TECHNICAL SPECIFICATION

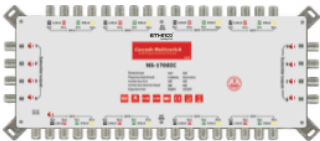
MODEL	EC-TC-2N-N A		
Cable Construction	Conductor	EN 60228, IEC 60228, VDE 0295 Electrolytic Mono Annealed Copper Wire, Class 1 PDV Electrolytic Mono Tinned Copper Wire, Class 1 PDV-K	
	Insulation	EN 50290-2-23 PE Compound	
	Insulation Color	TS EN 60708	
	Twist	Two insulated conductors twisted together, pairs formed Twisted in layers, groups of 10, in groups	
	Separator Tape	PES Tape	
	Outer Sheath:	EN 50290-2-22 PVC Compound	
	Sheath Colour	RAL 7032 Gray	
PACKAGING	Reels:- 100,250,500 m		
Conductor Resistance	97.80 MΩxkm	Insulation Resistance	≥ 5000 MΩxkm
Operating Voltage	250 V	Bending Radius	7.5XD
Test Voltage	1500 V	FLAME RETARDANT	IEC 60332-1-2,VDE 0482-332-1-2 ,EN 60332-1-2
Working Tempeture	-30°C +70°C		
Copacitance	56 nF/KM		



Multiswitch System with 2 Satellites, 1 Local Antenna, 1 Camera Distribution for 72 Apartments

EC-MS-17Nzc

MULTISWITCH LNB



EC-MS-1708ZC/ZE



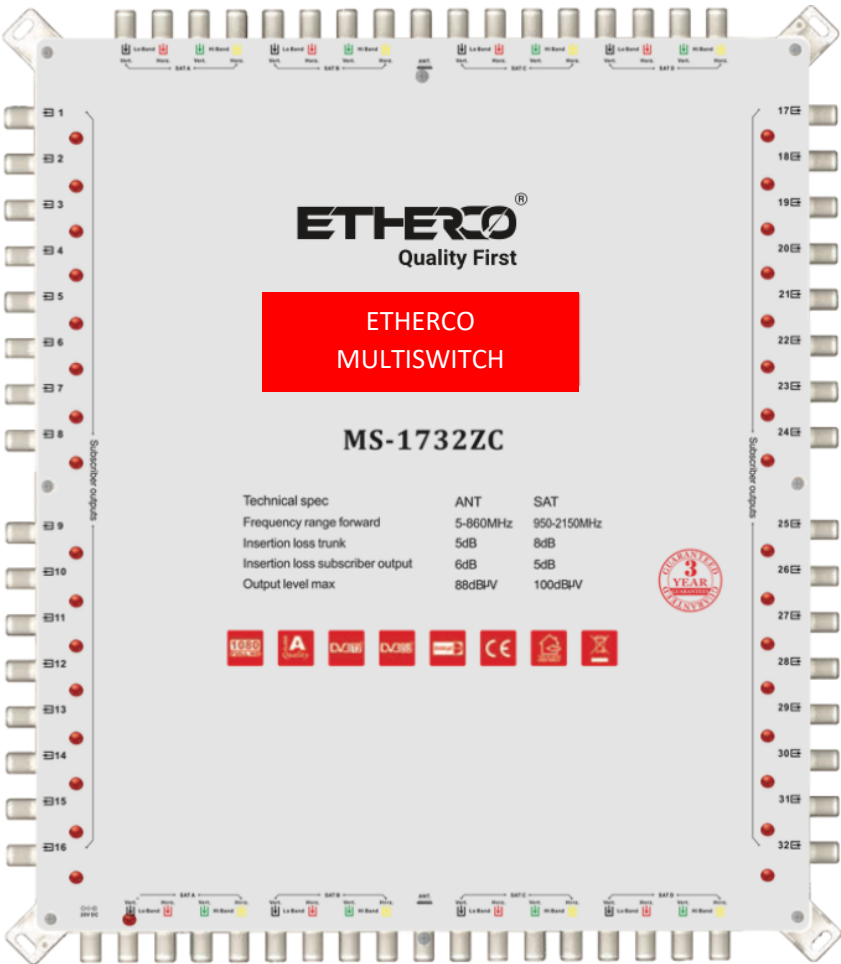
EC-MS-1712ZC/ZE



EC-MS-1716ZC/ZE



EC-MS-1724ZC/ZE



EC-MS-1732ZC/ZE

Features

- * Zinc die-cast housing
- * 4 SAT+1 ANT input,8,12,16,24 or 32 output
- * SAT IF selected by 13/18V,0/22K and Diseqc 1.0/2.0
- * Connectors: "F" type Female
- * Power supplied by satellite receiver or external power adapter(20±1V ,2500mA)

Magnetic Rings

LED

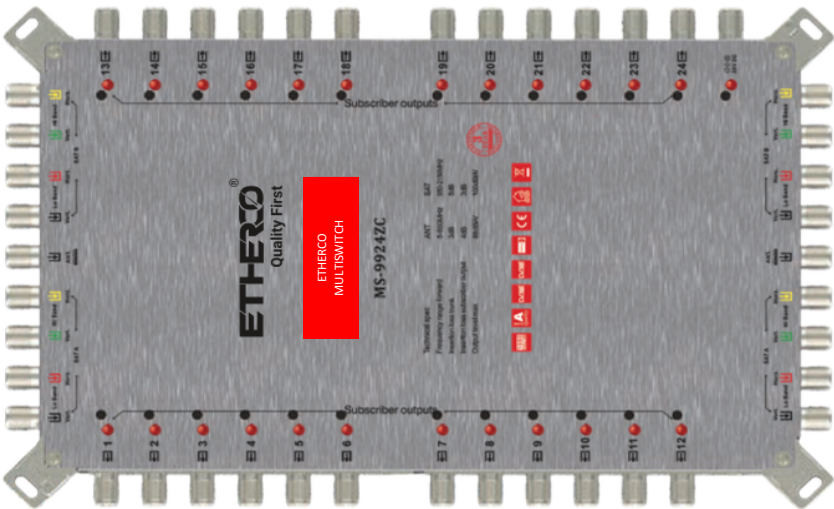
LED LIGHTS

OPTIONAL FEATURE

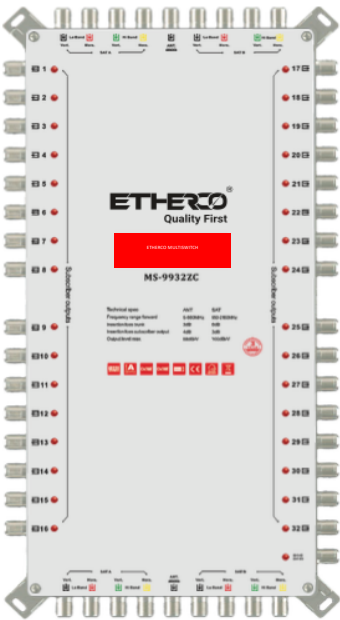
Item Model	Frequency Range (MHz)		Insertion Loss(dB)			Isolation(dB)			Return loss(dB)		Output level(dBμV)	
	SAT	ANT	SAT	ANT	Trunkline	Switch SAT In	Cross	IN/OUT	Input	Output	SAT	ANT
EC-MS-1708ZC	950-2150	5-860	4	5	3	28	25	25	12	8	100	88
EC-MS-1712ZC	950-2150	5-860	4	5	4	28	25	25	12	8	100	88
EC-MS-1716ZC	950-2150	5-860	4	5	4	28	25	25	12	8	100	88
EC-MS-1724ZC	950-2150	5-860	5	5	ANT:6,SAT:8	28	25	25	12	8	100	88
EC-MS-1732ZC	950-2150	5-860	5	5	ANT:8,SAT:10	28	25	25	12	8	100	88

EC-MS-9Nzc

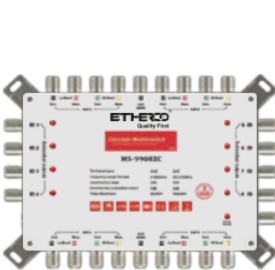
MULTISWITCH LNB



EC- MS-9924ZC/ZE



EC- MS-9932ZC/ZE



EC- MS-9908ZC/ZE



EC- MS-9912ZC/ZE



EC- MS-9916ZC/ZE

Features

- * Zinc die-cast housing
- * 2 SAT+ 1 ANT input,8,12,16,24 or 32 output
- * SAT IF selected by 13/18V, 0/22K and Diseqc 1.0 /2.0
- * Connectors: "F" type Female
- * Power supplied by satellite receiver or external power adapter(20±1V ,2500mA)

POWER ADAPTER

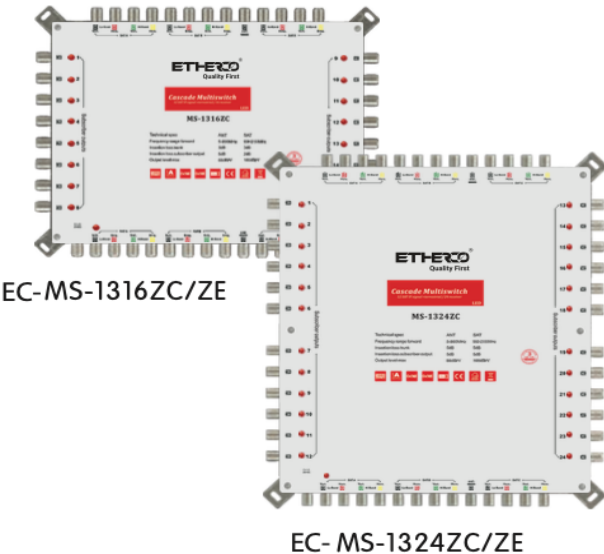
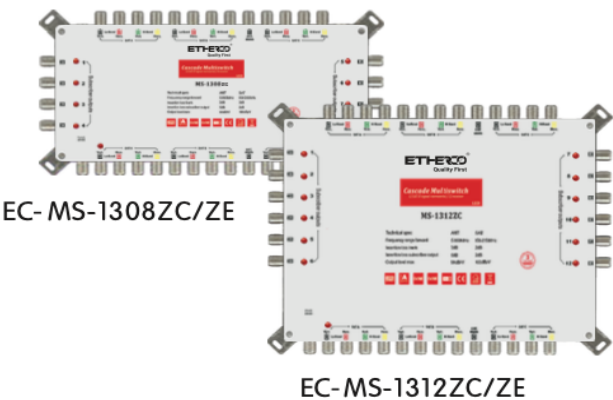
ZINC DIE-CAST

LED LIGHTS
OPTIONAL FEATURE

Item Model	Frequency Range (MHz)		Insertion Loss(dB)			Isolation(dB)			Return loss (dB)		Output level(dBμV)	
	SAT	ANT	SAT	ANT	Trunkline	Switch SAT in	Cross	IN/OUT	input	output	SAT	ANT
EC-MS-9908ZC	950-2150	5-860	2	5	3	28	25	25	12	8	100	88
EC-MS-9912ZC	950-2150	5-860	2	5	3	28	25	25	12	8	100	88
EC-MS-9916ZC	950-2150	5-860	2	5	3	28	25	25	12	8	100	88
EC-MS-9924ZC	950-2150	5-860	3	4	ANT:3,SAT:6	28	25	25	12	8	100	88
EC-MS-9932ZC	950-2150	5-860	3	4	ANT:3,SAT:6	28	25	25	12	8	100	88

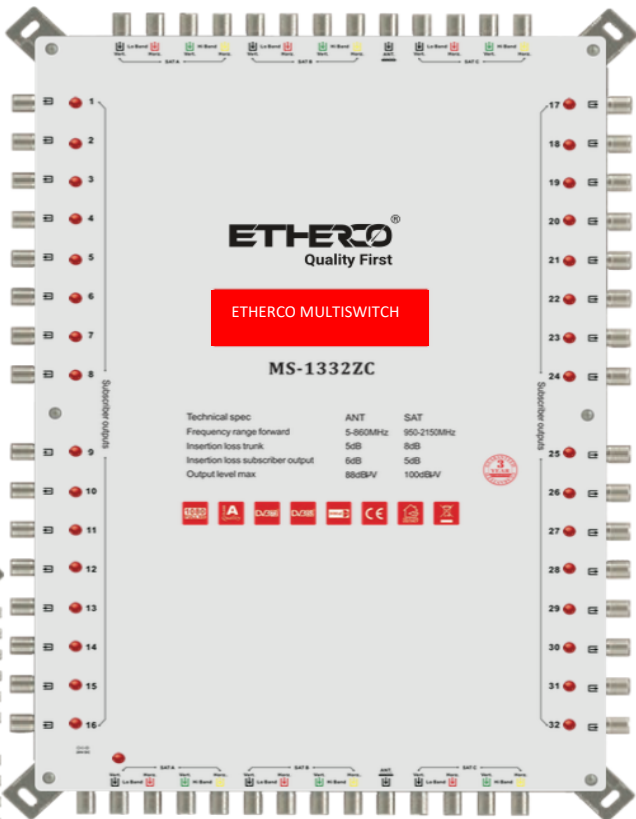
EC-MS-13NZN

MULTISWITCH LNB



EC-MS-1316ZC/ZE

EC-MS-1324ZC/ZE



EC-MS-1332ZC/ZE

Features

- * Zinc die-cast housing
- * 3 SAT+1 ANT input, 8, 12, 16, 24 or 32 output
- * SAT IF selected by 13/18V, 0/22K and Diseqc 1.0/2.0
- * Connectors: "F" type Female
- * Power supplied by satellite receiver or external power adapter(20±1V, 2500mA)



Item Model	Frequency Range (MHz)		Insertion Loss(dB)			Isolation(dB)			Return loss(dB)		Output level (dBuV)	
	SAT	ANT	SAT	ANT	Trunkline	Switch SAT in	Cross	IN/OUT	input	output	SAT	ANT
EC-MS-1308ZC	950-2150	5-860	4	5	3	28	25	25	12	8	100	88
EC-MS-1312ZC	950-2150	5-860	4	5	4	28	25	25	12	8	100	88
EC-MS-1316ZC	950-2150	5-860	4	5	4	28	25	25	12	8	100	88
EC-MS-1324ZC	950-2150	5-860	5	5	ANT:6,SAT:8	28	25	25	12	8	100	88
EC-MS-1332ZC	950-2150	5-860	5	5	ANT:8,SAT:10	28	25	25	12	8	100	88

EC-MS-5Nzc

MULTISWITCH LNB



EC- MS-5524ZC/ZE



EC- MS-5532ZC/ZE



EC- MS-5508ZC/ZE



EC- MS-5512ZC/ZE



EC- MS-5516ZC/ZE

Features

- * Zinc die-cast housing
- * 1 SAT+ 1 ANT input, 8,12,16, 24 or 32 output
- * SAT IF selected by 13/18V, 0/22K
- * Connectors: "F" type Female
- * Power supplied by satellite receiver or external power adapter(20±1V, 1200mA)



POWER ADAPTER



ZINC DIE-CAST



LED LIGHTS
OPTIONAL FEATURE

Item Model	Frequency Range (MHZ)		Insertion Loss(dB)			Isolation(dB)			Return loss(dB)		Output level(dBμV)	
	SAT	ANT	SAT	ANT	Trunkline	Switch SAT in	Cross	IN/OUT	input	output	SAT	ANT
EC-MS-5508ZC	950-2150	5-860	4	5	3	28	25	25	12	8	100	88
EC-MS-5512ZC	950-2150	5-860	4	5	3	28	25	25	12	8	100	88
EC-MS-5516ZC	950-2150	5-860	4	5	3	28	25	25	12	8	100	88
EC-MS-5524ZC	950-2150	5-860	5	6	ANT:3,SAT:6	28	25	25	12	8	100	88
EC-MS-5532ZC	950-2150	5-860	7	6	ANT:3,SAT:6	28	25	25	12	8	100	88

EC-MS-N1AMP

MULTISWITCH LNB



EC- MS-5A1



EC-MS-9A1



EC- MS-9A2



EC- MS-9A3

Features

- * Gain adjustable design
- * 9 way amplifier with 2&3 way splitter.
- * Can compensate the loss in your distribution system
- * signal outputted to next cascading stage via amplification



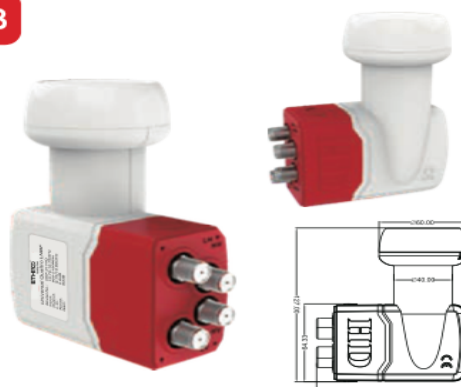
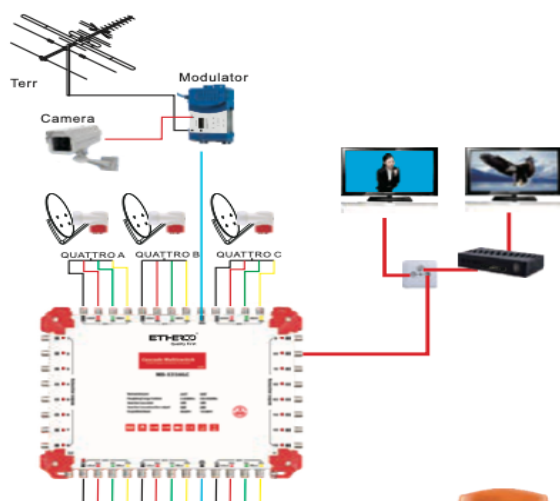
Item Model	Frequency Range (MHZ)	Gain (dB)	Gain Adjustable (dB)	Rturn Loss (dB)	Isolation out1-out2 (dB)	Output Level (dBμV)	Noise Figure (dB)
EC-MS-5A1	47-862	15	-5~15	12		105	6
EC-MS-9A1	950-2150	15	-5~15	10		110	6
EC-MS-9A2	47-862	15	-5~15	12	25	105	6
EC-MS-9A3	950-2150	15	-5~15	10	22	110	6

EC-GKF-LNB

MULTISWITCH LNB

ETHERCO
QUALITY FIRST

MULTISWITCH UNIVERSAL QUATTRO LNB



EC- GKF-2174Q



EC- GKF-2404Q



EC- GKF-2034RQ

Item	Specification	Item	Specification
Input Frequency Range	Low Band:10.70~11.70GHz	Gain Flatness	±0.5dB/27MHz
	HighBand:11.70~12.75GHz	Cross POL. Isolation	20dB(Min.)
Output Frequency Range	Low Band:950~1950MHz	Image Rejection	40dB(Min.)
	HighBand:1100~2150MHz	Output VSWR	2.0:1(Typ.)
L.O. Frequency	Low Band:9.75GHz	P1dB	0dBm(Min.)
	HighBand:10.60GHz	DC Current Consumption	220mA(Typ.)
L.O. Frequency Stability	±1.0MHz (Max.)@+25°C	Low/High Band Switching	Low Band:0Hz
	±2.0MHZ(Max.)@-30°C~+70°C		HighBand:22KHz±4KHz
L.O. Phase Noise	-75dBc/Hz@1KHz	POL. Switching Voltage	10.5~14.0V@Vertical
	-80dBc/Hz@10KHz		16.0~20.0V@Horizontal
	-90dBc/Hz@100KHz	Relative Humidity	0%~95%
Conversion Gain	60dB(Typ.)	Operating Temperature	-30°C~+70°C
Noise Figure	0.6dB(Typ.)	Connector Type	75Ω Female Connector



SMALL PABX

DIY Type; Easy & Direct; Plug & Play

Model:

MD series: 108/206/208/308

MS series: 108/206/208/308

Key Features

- ◆ Concurrent call: 7
- ◆ DISA
- ◆ Caller ID(CLI)
- ◆ Operator setting
- ◆ Auto attendant(OGM)
- ◆ Intercom call
- ◆ Call transfer
- ◆ Call forward
- ◆ Call pickup
- ◆ Call duration limit
- ◆ C.O line booking
- ◆ C.O line on hold
- ◆ Day & night mode(manual)
- ◆ Three party conference
- ◆ Outgoing call level setting
- ◆ Speed dialing(memory dialing)
- ◆ Multiple work mode
(manual/auto attendant/CRBT)
- ◆ Multiple dialing out mode
(direct/indirect/choose CO line)
- ◆ Ext. Number flexible coding
(change extension number freely)



GSM PABX

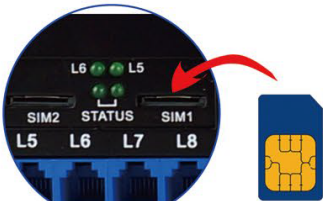
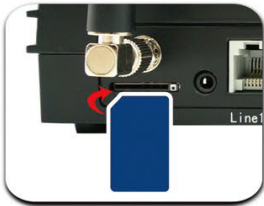
Built-in GSM module,
support both PSTN & GSM access

Model:
MS108-GSM
TP848 Series(from 416 up to 424...448,848,
optional 1 or 2 GSM)

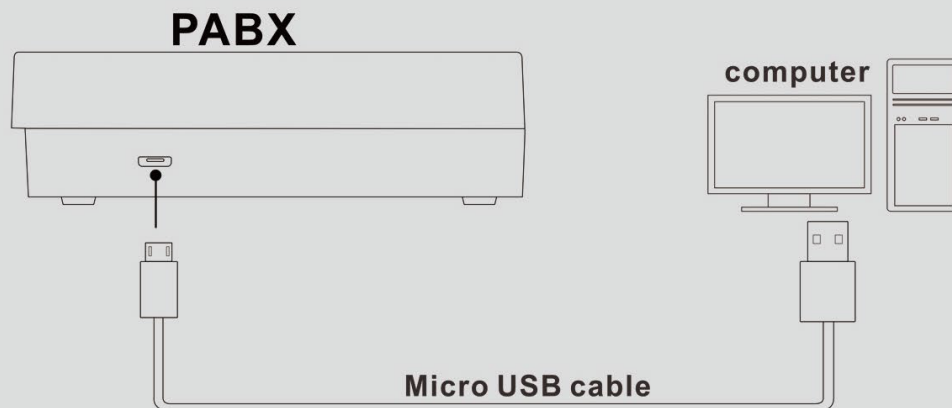


Key Features

- ◆ Concurrent call: 7
- ◆ Support both GSM & PSTN access, analog extension
- ◆ DISA
- ◆ Caller ID(CLI)
- ◆ Operator setting
- ◆ Auto attendant(OGM)
- ◆ Intercom call
- ◆ Call transfer
- ◆ Call forward
- ◆ Call pickup
- ◆ Call duration limit
- ◆ C.O line booking sion number freely)
- ◆ C.O line on hold
- ◆ Day & night mode(manual)
- ◆ Three party conference
- ◆ Outgoing call level setting
- ◆ Speed dialing(memory dialing)
- ◆ Multiple work mode (manual/auto attendant/CRBT)
- ◆ Multiple dialing out mode (direct/indirect/choose CO line)
- ◆ Ext. Number flexible coding (change exten



Maximum support 2 SIM card



MK-P/MF-P SERIES

Support Key phone

Support PC software(with call billing function)

Programming by either normal phone,
or key phone, or PC software

Key Features

- ◆ Concurrent call: 7
- ◆ Support one Key phone
- ◆ DISA
- ◆ Busy tone detect
- ◆ Caller ID(CLI)
- ◆ Operator setting
- ◆ Auto attendant(OGM)
- ◆ Intercom call
- ◆ Call transfer
- ◆ Call forward
- ◆ Call pickup
- ◆ Call duration limit
- ◆ C.O line booking
- ◆ C.O line on hold
- ◆ Day & night mode(manual/auto)
- ◆ Three party conference
- ◆ Outgoing call level setting
- ◆ Speed dialing(memory dialing)
- ◆ Multiple work mode
(manual/auto attendant/CRBT)
- ◆ Multiple dialing out mode
(direct/indirect/choose CO line)
- ◆ Ext. Number flexible coding
(change extension number freely)
- ◆ Ext number query
- ◆ Internal hotline
- ◆ Do not Disturb(DND)
- ◆ Least cost routing(LCR)
- ◆ CO Line group/Ext group
- ◆ Door phone & Door opener
- ◆ Extension dynamic lock
- ◆ Group call
- ◆ Auto fax detect
- ◆ Real time clock
- ◆ Support PC software(programming/
management/call billing)

CS SERIES

Economic system, with all basic feature of a PBX

Model:

CS208(2 CO line, 8 Extension)

CS308(3 CO line, 6 Extension)

CS416(4 CO line, 16 Extension)



Key Features

- ◆ Concurrent call: 7
- ◆ DISA
- ◆ Caller ID(CLI)
- ◆ Operator setting
- ◆ Auto attendant(OGM)
- ◆ Intercom call
- ◆ Call transfer
- ◆ Call forward
- ◆ Call pickup
- ◆ Call duration limit
- ◆ C.O line booking
- ◆ C.O line on hold
- ◆ Day & night mode(manual)
- ◆ Three party conference
- ◆ Outgoing call level setting
- ◆ Speed dialing(memory dialing)
- ◆ Multiple work mode
(manual/auto attendant/CRBT)
- ◆ Multiple dialing out mode
(direct/indirect/choose CO line)
- ◆ Ext. Number flexible coding
(change extension number freely)

CS+632 SERIES

Expandable, cost effective,
with all basic feature of a phone system

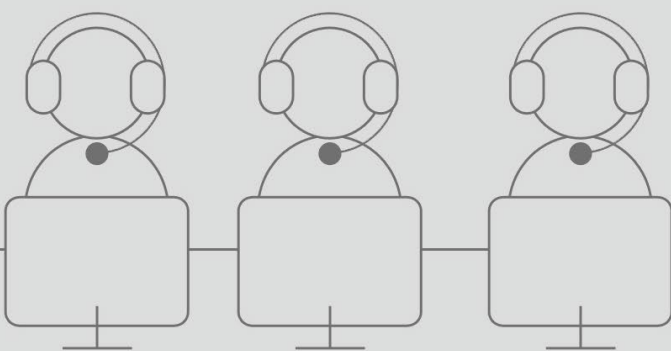
Capacity:

CS+632-424 (4 CO line,24 extension)

CS+632-432 (4 CO line,32 extension)

CS+632-624 (6 CO line,24 extension)

CS+632-632 (6 CO line,32 extension)



Key Features

- ◆ Concurrent call: 7
- ◆ DISA
- ◆ Caller ID(CLI)
- ◆ Operator setting
- ◆ Auto attendant(OGM)
- ◆ Intercom call
- ◆ Call transfer
- ◆ Call forward
- ◆ Call pickup
- ◆ Call duration limit
- ◆ C.O line booking
- ◆ C.O line on hold
- ◆ Day & night mode(manual)
- ◆ Three party conference
- ◆ Outgoing call level setting
- ◆ Speed dialing(memory dialing)
- ◆ Ext number query
- ◆ Internal hotline
- ◆ Do not Disturb(DND)
- ◆ Least cost routing(LCR)
- ◆ CO Line group/Ext group
- ◆ Door phone & Door opener
- ◆ Extension dynamic lock
- ◆ Group call
- ◆ Multiple work mode
(manual/auto attendant/CRBT)
- ◆ Multiple dialing out mode
(direct/indirect/choose CO line)
- ◆ Ext. Number flexible coding
(change extension number freely)

TP96/TP152 SERIES

Metal case, rack mountable/Modular design,
Expandable/Support 8 Key phone

Model:

TP96 from 448 up to 488 or 880 maximum

TP152 from 448 up to 4/144 or 8/136 maximum

4 ports CO card

8 ports Ext. card



Key Features

- ◆ Concurrent call: 16
- ◆ Support 8 Key phone(optional)
- ◆ DISA
- ◆ Busy tone detect
- ◆ Caller ID(CLI)
- ◆ Operator setting
- ◆ Auto attendant(OGM)
- ◆ Intercom call
- ◆ Call transfer
- ◆ Call forward
- ◆ Call pickup
- ◆ Call duration limit
- ◆ C.O line booking
- ◆ C.O line on hold
- ◆ Day & night mode(manual/auto)
- ◆ Three party conference
- ◆ Outgoing call level setting
- ◆ Speed dialing(memory dialing)
- ◆ Multiple work mode(manual/auto attendant/CRBT)
- ◆ Multiple dialing out mode(direct/indirect/choose CO line)
- ◆ Ext. Number flexible coding(change extension number freely)
- ◆ Ext number query
- ◆ Internal hotline
- ◆ Do not Disturb(DND)
- ◆ Least cost routing(LCR)
- ◆ CO Line group/Ext group
- ◆ Door phone & Door opener
- ◆ Extension dynamic lock
- ◆ Group call
- ◆ Emergency call
- ◆ Morning call
- ◆ Auto fax detect
- ◆ Real time clock
- ◆ Paging function(external broadcasting)
- ◆ Support PC software(programming/management/call billing)

TP240/TP256 SERIES

Metal cabinet, rack mountable
Modular design, Expandable
Strong lightning protection
Non-blocking communication
Each card with self protection circuit

Model:

TP240 maximum capacity 0 trunk, 240 Ext. or 8 trunk, 224 Ext.

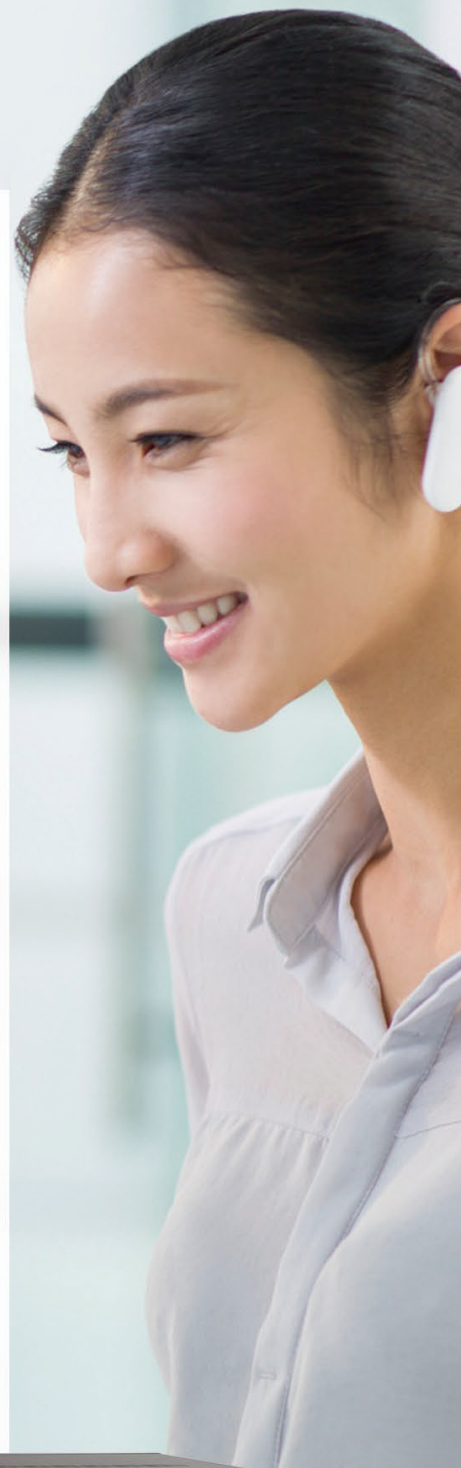
TP256 maximum capacity 24 trunk, 256 Ext. or 32 trunk, 240 Ext.

8 ports CO card

16 ports Ext. card

Key Features

- ◆ Concurrent call:
TP240(16), TP256(32)
- ◆ Support 16 Key phone(optional)
- ◆ DISA
- ◆ Busy tone detect
- ◆ Caller ID(CLI)
- ◆ Operator setting
- ◆ Auto attendant(OGM)
- ◆ Intercom call
- ◆ Call transfer
- ◆ Call forward
- ◆ Call pickup
- ◆ Call duration limit
- ◆ C.O line booking
- ◆ C.O line on hold
- ◆ Day & night mode(manual/auto)
- ◆ Three party conference
- ◆ Outgoing call level setting
- ◆ Speed dialing(memory dialing)
- ◆ Multiple work mode
(manual/auto attendant/CRBT)
- ◆ Multiple dialing out mode
(direct/indirect/choose CO line)
- ◆ Ext. Number flexible coding
(change extension number freely)
- ◆ Ext number query
- ◆ Internal hotline
- ◆ Do not Disturb(DND)
- ◆ Least cost routing(LCR)
- ◆ CO Line group/Ext group
- ◆ Door phone & Door opener
- ◆ Extension dynamic lock
- ◆ Group call
- ◆ Emergency call
- ◆ Morning call
- ◆ Auto fax detect
- ◆ Real time clock
- ◆ Paging function(external broadcasting)
- ◆ Support PC software
(programming/management/call billing)



ANALOG PHONE



- Model:** EC-TELE206
- Call Record
 - DTMF/FSK receiver
 - 10 speed Dial Button
 - Call Transfer
 - Call Pick up
 - Busy Forward
 - Redial
 - Call back etc



- Model:** EC-TELE208
- Call Record
 - DTMF/FSK receiver
 - Hold
 - volume adjusted
 - Flash
 - Real time display
 - On-hold music
 - Call back



- Model:** EC-TELE146
- Mute
 - Pause
 - Flash
 - Redial



- Model:** EC-HP308
- Headset Phone

GSM FIXED WIRELESS PHONE(FWP)

Model: FWP01

Key Features

- ◆ Large capacity telephone book (200)
- ◆ Support for DTMF secondary dialing
- ◆ User personalization volume setting
- ◆ Support the real person singing the ringtone of the call.
- ◆ Provide screen backlight function
- ◆ TNC antenna interface, which can be connected to the indoor antenna
- ◆ Standard TNC antenna interface for indoor and outdoor antenna
- ◆ Provide a variety of security solutions, such as locking net, lock card, lock cell, card interlocking, etc.(optional).



Product specification

- ◆ Dimensions (long and wide and high): 196 mm*152 mm *51 mm
- ◆ Weight: less than 700g (including batteries)
- ◆ Switching power supply: AC:100 V ~240 V; DC:5.00 V,0.65 A.
- ◆ Backup battery: type: NiMH; capacity: 3.7V 3000mAh, 1000mAh (optional); typical talk time: 2.5hours (battery capacity 3000mAh) (depending on network environment); typical standby time: 150hours (depending on network environment)(battery capacity 3000mAh)
- ◆ External interface: USB data interface for data configuration; antenna interface type: TNC
- ◆ Display:128X64 dot array LCD display.
- ◆ Standard accessories: fixed mainframe, handle, coil, rechargeable battery, power adapter, indoor antenna, user manual
- ◆ Frequency:GSM850/900/1800/1900 maximum transmit power:33 to 2 dBm
- ◆ Receive sensitivity: GSM900M: over -105 dBm; DCS1800M: over -104 dBm

ETHERCO Limited

71-75, Shelton Street,
Covent Garden, WC2H 9JQ
London, United Kingdom



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