

COMTEC DISTRIBUTION BOXES
OUTDOOR DB.- C104SERIES



1. HOUSING

1.1 FEATURES

- Robust & Weather Resistant Housing
 - o It is designed to withstand the roughest climatic conditions.
 - o It endures the heaviest rains & splashing conditions.
 - o It can also withstand the heat & high level of Ultra-Violet Radiation.
 - o It is High Impact Resistant Plastic Polymers which will be very effective against the Mechanical Shocks.

- Easy & Time Saving Handling
 - o Installation and handling of C102/C104 Series is very easy and convenient.
 - o The Thermal Chamber is easily accessible for Terminating & Changing Pairs.
 - o Cables and wires are comfortably lead in through elastomeric entries.
 - o It is designed for easy mounting on walls and poles without requiring tools.

- Clear Identification
 - o The DB Lid has enough space for customer's specific logo.

1.2 CLOSURE

We placed the housing design guided by present & future requirements of the Distribution Boxes.

The satisfaction of C102/C104 Series designs is dependent upon the useful reliability and covered the followings:

- High impact plastic material.
- Protection Index IP55.
- Mountable on poles or walls.
- Equipped w. earthing clamp and different cable entries, including data cable entry.
- Non-Corrosive Steel Metal Parts.
- Larger capacity till 50 P.

- 1.2.1 DB LID

- Lid's top finish has many fine webs for cooling purpose.
- Lockable w. two nickel plated screws.
- Fixed w. the box base by cam hinges mechanism, so the installer can keep Definite and limited open distance to enable comfort & optimum Termination Process.
- Equipped w. a circular foam rubber seal for water and air tight.
- The inside Box Chamber is designed for using the entire available termination module's acc. Such as:
 - Wiring Tool.
 - Disconnection Plugs.
 - Marking Plugs.
 - Labelling Clips.
 - Protection Magazine 1/5 P.
 - Current Protector.

- 1.2.2 BD BACK PANEL

- Equipped w.:
 - Mounting Rail for clipping on the c. module.
 - PVC Cable Entry plug of press-out diameter range 18-20 mm.
 - 10 Drop Entry Plugs for insulated cables.
 - Data Cable entry plug 22x5 mm.
 - Cable shield Earthing Bar w. Cable Metal Clamp.

1.3 MATERIAL

C104 Series Housing Material are manufactured from the updated Semi-Crystalline Materials based on ABS Reinforced w. Fiber Glass , PC/ABS, Polyamide (Thermoplastic Polyester resins – Glass/ Mineral reinforced) which combine high mechanical Thermal & Electrical properties w. excellent chemical resistance and dimensional stability .

Colour: Light Grey.

- 1.3.1 DB BACK PANEL & LID MATERIAL

MECHANICAL

Tens. Stress	y (b)	50	MPa	-(-)
	b	5	Mpa	70
Tens. Strain	y (b)	50	%	-(-)
	b	5	%	1
Tens. Modulus			Mpa	9000
Flex. Stress	y (b)		Mpa	-(100)
Flex. Modulus			Mpa	8000
Hardness	Ball		Mpa	n.t
	Rockwell		Scale	n.t
Abrasion	Taber		mg	n.t

IMPACT

Izod notch.	23° (-30°) C		K.J/m ²	4(-)
unnotch.	23° (-30°) C		K.J/m ²	20(-)
Charpy notch.	23° (-30°) C		K.J/m ²	n.t
unnotch.	23° (-30°) C		K.J/m ²	n.t

THERMAL

Vicat A/50			C°	210
B/50			C°	200
B/120			C°	200
HDT / Ae 1.80 Mpa			C°	196
/ Be 0.45 Mpa			C°	217
Ball Pressure			C°	125
RTI Electrical			C°	n.t
Mech. With Impact			C°	n.t
Without Impact			C°	n.t
Thermal Conductivity			W/Mc°	n.t
CTE Flow			1/C°	n.t

FLAMMABILITY

UL94			class at mm	V0/0.8
LOI			%	n.t
Glow Wire			C° at mm	n.t
Needle Flame			-	n.t
HWI – PLC			PLC	-
HAI – PLC			PLC	-

ELECTRICAL

Diel. Str. Oil 08/1.6/3.2mm			KV/mm	n.t./23/n.t
Surface resistivity			Ohm	>10 ¹⁴
Volume resistivity			Ohm.cm	>10 ¹⁴
Rel. permit. 50Hz			-	n.t
1MHz			-	n.t
Dissipation f. 50Hz			-	n.t
1MHz			-	n.t
CTI (CTI-M)			V	600 (n.t.)
CTI			PLC	-
Arc D-495			PLC	-
HVTR			PLC	-

PHYSICAL

Density	g/cm ³	1.72
Moisture abs. 23°C	%	n.t
Water abs. 23°C	%	n.t
Mould Shrink flow	%	0.3-0.6

RHEOLOGICAL

MVR	cm ³ /10 min	17 ³)
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- 1.3.2 CABLE & DROPWIRE ENTRY PLUGS

Elastomer – PVC

- 1.3.3 METAL PARTS & SCREWS

- Earthing Bar : Nickel - Plated Brass
- Cable Clamp : Nickel – Plated Steel & Brass Strip
- BMF : Stainless Steel
- Screws : Nickel - Plated Brass

1.4 PROTECTION

IP-55 (W. Cable Entry Plugs).

2. SPECIFICATION

MODEL NO.	CAPACITY PAIRS	EXTERNAL DIMENSIONS H X W X D mm	CONNECTION TYPE	D. MODULE	
C104001	10 P	208x120x100 mm	QC	KRONE LSA-PLUS	FT2-01
C104002	20 P	208x120x100 mm	QC	KRONE LSA-PLUS	FT2-01
C104003	30 P	255x175x100 mm	QC	KRONE LSA-PLUS	FT2-01
C104004	40 P	255x175x100 mm	QC	KRONE LSA-PLUS	FT2-01
C104005	50 P	255x175x100 mm	QC	KRONE LSA-PLUS	FT2-01
C104006	60 P	255x175x100 mm	QC	KRONE LSA-PLUS	FT2-01