

# CBC Series

with UL94V-0 polyamide insulating body

- UL94V-0
- reduced overall dimension
- patented "Easy bridge" system: double possibility to insert PTC multi-pole cross-connections, without the need of insulating protection
- mounting onto PR/3 type rails, according to IEC 60715 Std., "TH/35" type
- available in grey RAL 7042 and beige RAL 1001 colours
- **CESI 08 ATEX 061 U** Ex e (Ex) certificate I M2 / II 2 G D  
operating temperature range:  $-40 \div +80$  °C
- **CoC IEC Ex N. CES 09.0002U** Ex e II



The **/GR** tag indicates the grey colour version.

Values in brackets are referred to the Ex e application

PTC jumper configurations					
SINGLE OR PARALLEL EXTENDING	POLE SKIPPING	ADJACENT WITHOUT BARRIER	ADJACENT WITH BARRIER	STAGGERED MODE	PARALLEL SKIPPING

Terminal block	Jumper	Insulation voltage in the above configurations (V)					
<b>CBC.10</b>	<b>PTC/10</b>	800 (250)	630 (320)		800 (250)	800 (250)	630 (250)
<b>CBC.16</b>	<b>PTC/10</b>	(320)	(320)		(500)	-	-
<b>CBC.35</b>	<b>PTC/10</b>	(250)	-		(630)	-	-

grey version	
beige version	
(Ex)i version	
TECHNICAL CHARACTERISTICS	
function / type	
rated cross-section	(mm²)
connecting capacity	
flexible	(mm²)
rigid	(mm²)
max. flexible with ferrule (mm²)-ferrule type	
rated voltage / rated current / gauge	conf. to IEC 60947-7-1
rated voltage / rated current / AWG / tightening torque value	UL
max current (*)	
(Ex e) rated voltage	(V)
rated impulse withstand voltage / pollution degree	
insulation stripping length	(mm)
tightening torque value (test / max)	(Nm)
height / width / thickness	TH/35 7,5 mm
height / width / thickness	TH/35 15 mm

CBC.10/GR	
CBC.10	
CBC.10 (Ex)i	
CBC.10 (Ex)i	
Cat. No.	CBC10GR
Cat. No.	CBC10
Cat. No.	CBI10
Cat. No.	CBI10
feed-through	10
flexible	1,5 ÷ 16
rigid	1,5 ÷ 16
max. flexible with ferrule	10 - WP100/21
rated voltage / rated current / gauge	1000 V / 76 A (16 mm²) / B6
rated voltage / rated current / AWG / tightening torque value	600 V / 65 A / 14-6 AWG / 1,9 Nm
max current (*)	70 A (10 mm²) / 85 A (16 mm²)
(Ex e) rated voltage	400
rated impulse withstand voltage / pollution degree	12 KV / 3
insulation stripping length	12
tightening torque value (test / max)	1,2 / 1,9
height / width / thickness	52 / 44 / 10
height / width / thickness	60 / 44 / 10

CBC.16/GR	
CBC.16	
CBC.16 (Ex)i	
CBC.16 (Ex)i	
Cat. No.	CBC16GR
Cat. No.	CBC16
Cat. No.	CBI16
Cat. No.	CBI16
feed-through	25
flexible	1,5 ÷ 25
rigid	1,5 ÷ 25
max. flexible with ferrule	16 - WP160/22
rated voltage / rated current / gauge	1000 V / 101 A (25 mm²) / B7
rated voltage / rated current / AWG / tightening torque value	600 V / 100 A / 16-3 AWG / 2,8 Nm
max current (*)	95 A (16 mm²) / 114 A (25 mm²)
(Ex e) rated voltage	500
rated impulse withstand voltage / pollution degree	12 KV / 3
insulation stripping length	15
tightening torque value (test / max)	2 / 3
height / width / thickness	56 / 47 / 12
height / width / thickness	64 / 47 / 12

CBC.35/GR	
CBC.35	
CBC.35 (Ex)i	
CBC.35 (Ex)i	
Cat. No.	CBC35GR
Cat. No.	CBC35
Cat. No.	CBI35
Cat. No.	CBI35
feed-through	50
flexible	2,5 ÷ 50
rigid	2,5 ÷ 50
max. flexible with ferrule	35 - WP350/30
rated voltage / rated current / gauge	1000 V / 150 A (50 mm²) / B9
rated voltage / rated current / AWG / tightening torque value	600 V / 125 A / 20-1 AWG / 8,47 Nm
max current (*)	134 A (35 mm²) / 160 A (50 mm²)
(Ex e) rated voltage	630
rated impulse withstand voltage / pollution degree	12 KV / 3
insulation stripping length	18
tightening torque value (test / max)	2,5 / 5
height / width / thickness	63 / 56 / 16
height / width / thickness	71 / 56 / 16

## APPROVALS



ACCESSORIES	
End sections	grey beige blue
Permanent cross connection (*)	(*) intrinsically IPXXB protected once mounted
Rated current carrying capacity of jumper	(same, Ex e version) (A)
Cross-connection identification strip (100 mm)	green
Switchable cross connection	
Multiple common bar	250 mm
Shunting screw and sleeve (same, Ex e version)	
Coloured partition	red, green, white
Cross connection barrier	red
Test plug socket	
Test plug	
Modular test plug	
End section for modular test plug	
Numbering strip	
Warning plate	on adjacent terminal blocks
Cover for cross-connection	
Marking tag	printed or blank
End bracket	
Mounting rail	
according to IEC 60715 Std.	

Type	Cat. No.
<b>CBC.2-10/PT/GR</b>	CB061GR
<b>CBC.2-10/PT</b>	CB061
<b>CBC.2-10/PT (Ex)i</b>	CBI061
<b>PTC/10/02</b> poles (*)	PTC1002
<b>PTC/10/03</b> poles (*)	PTC1003
<b>PTC/10/05</b> poles (*)	PTC1005
<b>PTC/10/10</b> poles (*)	PTC1010
<b>PTC/10/00</b> (25 poles) (*)	PTC1000
<b>57 / (47)</b>	
<b>PTC/SP</b>	PTC0990
-	-
-	-
<b>DFU/4</b>	DU04..
<b>DFM/800 - DFM/900</b>	DF800-900
-	-
-	-
-	-
<b>PRP/7/G</b> (100 mm)	PRP070G
-	-
<b>CNU/8/51</b>	NU0851
<b>BTU</b> for PR/DIN and PR/3	BT005
<b>BTO</b> for PR/3 only	BT007
<b>BT/3</b> for PR/3 only	BT003
-	-
<b>PR/3/AC</b> for PR/DIN and PR/3	PR003
<b>PR/3/AS</b> same with slots	PR005

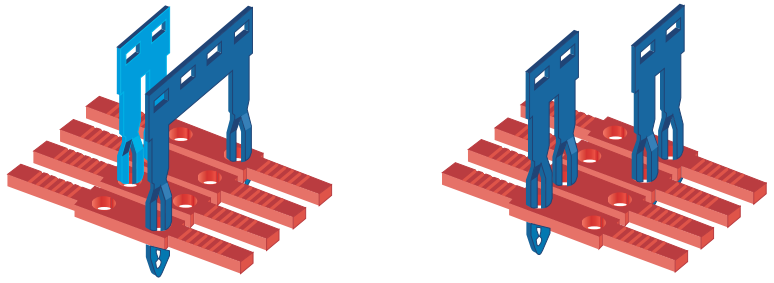
Type	Cat. No.
<b>CBC.16/PT/GR</b>	CB161GR
<b>CBC.16/PT</b>	CB161
<b>CBC.16/PT (Ex)i</b>	CBI161
<b>POF/53</b>	POF53
<b>(PFX/53)</b>	(PFX53)
(same, Ex e version)	
<b>76 / (76)</b>	
-	-
<b>POS/53</b>	POS53
<b>PMP/05</b>	PMP05
<b>CPM/53 (CPX/53)</b>	CPM53 (CPX53)
<b>DFU/4</b>	DU04..
<b>DFM/700</b>	DF700
<b>PSD/B</b>	PD002
<b>SDD/2</b>	DD002
-	-
-	-
-	-
<b>TUM/16</b> on 3 and 4	TUM16
-	-
<b>PRP/7</b>	PRP07
<b>CNU/8/51</b>	NU0851
<b>BTU</b> for PR/DIN and PR/3	BT005
<b>BTO</b> for PR/3 only	BT007
<b>BT/3</b> for PR/3 only	BT003
-	-
<b>PR/3/AC</b> for PR/DIN and PR/3	PR003
<b>PR/3/AS</b> same with slots	PR005

Type	Cat. No.
<b>CBC.35/PT/GR</b>	CB351GR
<b>CBC.35/PT</b>	CB351
<b>CBC.35/PT (Ex)i</b>	CBI351
<b>POF/06</b>	POF06
<b>PFX/06</b>	(PFX06)
(same, Ex e version)	
<b>125 / (125)</b>	
-	-
-	-
<b>PMP/06</b>	PMP06
<b>CPM/06 (CPX/06)</b>	CPM06 (CPX06)
<b>DFU/5</b>	DU05..
<b>DFM/700</b>	DF700
<b>PSD/B</b>	PD002
<b>SDD/2</b>	DD002
-	-
-	-
-	-
<b>TUM/06</b> on 3 and 4	TUM06
-	-
<b>PRP/8</b>	PRP08
<b>CNU/8/51</b>	NU0851
<b>BTU</b> for PR/DIN and PR/3	BT005
<b>BTO</b> for PR/3 only	BT007
<b>BT/3</b> for PR/3 only	BT003
-	-
<b>PR/3/AC</b> for PR/DIN and PR/3	PR003
<b>PR/3/AS</b> same with slots	PR005

# Cross connections

## Easy Bridge System

- screwless, snap-in insertion
- transversal and staggered mode connection possibility
- once inserted, **intrinsically IPXXB protected** resulting installation, without the need for further insulating covers
- patented system



- 1-2 After having cut the bar according to the number of poles, insert the cross-connection, in the appropriate groove of the terminal block. At this point, by using the blade of a screwdriver, push down the cross-connection until it reaches its blocking point. The cross connection will be fully insulated and intrinsically IPXXB protected.
- 3-4 After having mounted the cross-connection, the connected poles can be outlined and detected by the PTC/SP green strip. This strip is supplied in the 100 mm standard length and it can be easily cut to the appropriate length with the aid of a cutter.
- 5 To remove the cross-connection, it is sufficient to remove the PTC/SP strip: insert the blade of the screwdriver in the jumper slot, then lift it up and finally extract it.

Terminal block	2-pole jumper		3-pole jumper		5-pole jumper		10-pole jumper		Jumper l = 250 mm		
	Type	Cat. No.	Type	Cat. No.	Type	Cat. No.	Type	Cat. No.	Type	Cat. No.	Poles
CBC.2 (*)	PTC/2/02	PTC0202	PTC/2/03	PTC0203	PTC/2/05	PTC0205	PTC/2/10	PTC0210	PTC/2/00	PTC0200	50
CBC.4 (*)	PTC/4/02	PTC0402	PTC/4/03	PTC0403	PTC/4/05	PTC0405	PTC/4/10	PTC0410	PTC/4/00	PTC0400	42
CBC.6 (*)	PTC/6/02	PTC0602	PTC/6/03	PTC0603	PTC/6/05	PTC0605	PTC/6/10	PTC0610	PTC/6/00	PTC0600	31
CBC.10 (*)	PTC/10/02	PTC1002	PTC/10/03	PTC1003	PTC/10/05	PTC1005	PTC/10/10	PTC1010	PTC/10/00	PTC1000	25
DBC.2 (*)	PTC/2/02	PTC0202	PTC/2/03	PTC0203	PTC/2/05	PTC0205	PTC/2/10	PTC0210	PTC/2/00	PTC0200	50
DSFA.4 (*)	PTC/4/02	PTC0402	PTC/4/03	PTC0403	PTC/4/05	PTC0405	PTC/4/10	PTC0410	PTC/4/00	PTC0400	42
DSS.4 (*)	PTC/4/02	PTC0402	PTC/4/03	PTC0403	PTC/4/05	PTC0405	PTC/4/10	PTC0410	PTC/4/00	PTC0400	42
HMM.1/GR (**)	PTC/1/02	PTC0102	PTC/1/03	PTC0103	PTC/1/05	PTC0105	PTC/1/10	PTC0110	PTC/1/00	PTC0100	50
HMD.1/GR	PTC/1/02	PTC0102	PTC/1/03	PTC0103	PTC/1/05	PTC0105	PTC/1/10	PTC0110	PTC/1/00	PTC0100	50
HCD.1/GR	PTC/2/02	PTC0202	PTC/2/03	PTC0203	PTC/2/05	PTC0205	PTC/2/10	PTC0210	PTC/2/00	PTC0200	50
HDE.2/GR (**)	PTC/3/02	PTC0302	PTC/3/03	PTC0303	PTC/3/05	PTC0305	PTC/3/10	PTC0310	PTC/3/00	PTC0300	47
HLD.2/GR (**)	PTC/3/02	PTC0302	PTC/3/03	PTC0303	PTC/3/05	PTC0305	PTC/3/10	PTC0310	PTC/3/00	PTC0300	47
HFR.4/GR	PTC/5/02	PTC0502	-	-	-	-	-	-	-	-	-
HFR.4/M/GR	PTC/5/02	PTC0502	PTC/5/03	PTC0503	PTC/5/05	PTC0505	PTC/5/10	PTC0510	PTC/5/00	PTC0500	40
HMM.2/GR (**)	PTC/3/02	PTC0302	PTC/3/03	PTC0303	PTC/3/05	PTC0305	PTC/3/10	PTC0310	PTC/3/00	PTC0300	47
HMS.2/GR	PTC/3/02	PTC0302	PTC/3/03	PTC0303	PTC/3/05	PTC0305	PTC/3/10	PTC0310	PTC/3/00	PTC0300	47
HMFA.2/GR	PTC/3/02	PTC0302	PTC/3/03	PTC0303	PTC/3/05	PTC0305	PTC/3/10	PTC0310	PTC/3/00	PTC0300	47
HMM.4/GR (**)	PTC/5/02	PTC0502	PTC/5/03	PTC0503	PTC/5/05	PTC0505	PTC/5/10	PTC0510	PTC/5/00	PTC0500	40
HMFA.2/GR	PTC/3/02	PTC0302	PTC/3/03	PTC0303	PTC/3/05	PTC0305	PTC/3/10	PTC0310	PTC/3/00	PTC0300	47
HSCB.4/GR	PTC/5/02	PTC0502	PTC/5/03	PTC0503	PTC/5/05	PTC0505	PTC/5/10	PTC0510	PTC/5/00	PTC0500	40
HSCB.6/GR	PTC/8/02	PTC0802	PTC/8/03	PTC0803	PTC/8/05	PTC0805	PTC/8/10	PTC0810	PTC/8/00	PTC0800	30
HMM.6/GR	PTC/8/02	PTC0802	PTC/8/03	PTC0803	PTC/8/05	PTC0805	PTC/8/10	PTC0810	PTC/8/00	PTC0800	30
HMM.10/GR	PTC/11/02	PTC1102	PTC/11/03	PTC1103	PTC/11/05	PTC1105	PTC/11/10	PTC1110	PTC/11/00	PTC1100	25
HMM.16/GR	PTC/16/02	PTC1602	PTC/16/03	PTC1603	PTC/16/05	PTC1605	PTC/16/10	PTC1610	PTC/16/00	PTC1600	20
HVPC.2/GR	PTC/3/02	PTC0302	PTC/3/03	PTC0303	PTC/3/05	PTC0305	PTC/3/10	PTC0310	PTC/3/00	PTC0300	47
CHP.2/GR	PTC/3/02	PTC0302	PTC/3/03	PTC0303	PTC/3/05	PTC0305	PTC/3/10	PTC0310	PTC/3/00	PTC0300	47
CHP.2D/GR	PTC/3/02	PTC0302	PTC/3/03	PTC0303	PTC/3/05	PTC0305	PTC/3/10	PTC0310	PTC/3/00	PTC0300	47
HPP.2/GR	PTC/3/02	PTC0302	PTC/3/03	PTC0303	PTC/3/05	PTC0305	PTC/3/10	PTC0310	PTC/3/00	PTC0300	47
HP.2/GR	PTC/3/02	PTC0302	PTC/3/03	PTC0303	PTC/3/05	PTC0305	PTC/3/10	PTC0310	PTC/3/00	PTC0300	47
HPC.2/GR	PTC/3/02	PTC0302	PTC/3/03	PTC0303	PTC/3/05	PTC0305	PTC/3/10	PTC0310	PTC/3/00	PTC0300	47
MPS.4 (*)	PTC/4/02	PTC0402	PTC/4/03	PTC0403	PTC/4/05	PTC0405	PTC/4/10	PTC0410	PTC/4/00	PTC0400	42
MPFA.4 (*)	PTC/4/02	PTC0402	PTC/4/03	PTC0403	PTC/4/05	PTC0405	PTC/4/10	PTC0410	PTC/4/00	PTC0400	42
SFR.6 (*)	PTC/20/02	PTC2002	PTC/20/03	PTC2003	PTC/20/05	PTC2005	PTC/20/10	PTC2010	PTC/20/00	PTC2000	25
VPC.2 (*)	PTC/2/02	PTC0202	PTC/2/03	PTC0203	PTC/2/05	PTC0205	PTC/2/10	PTC0210	PTC/2/00	PTC0200	50
VPD.2 (*)	PTC/2/02	PTC0202	PTC/2/03	PTC0203	PTC/2/05	PTC0205	PTC/2/10	PTC0210	PTC/2/00	PTC0200	50

(\*) Item available in grey colour too.

(\*\*) Including versions /1+2, /2+2, and the corresponding earth terminal blocks