

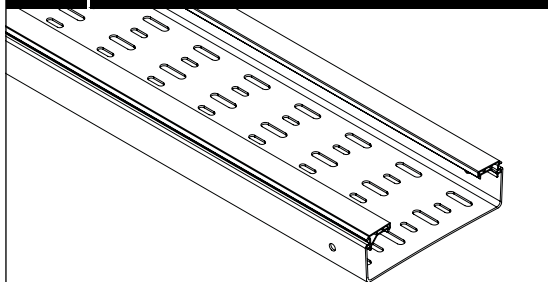


Certificado Nº SGI 3198055/11

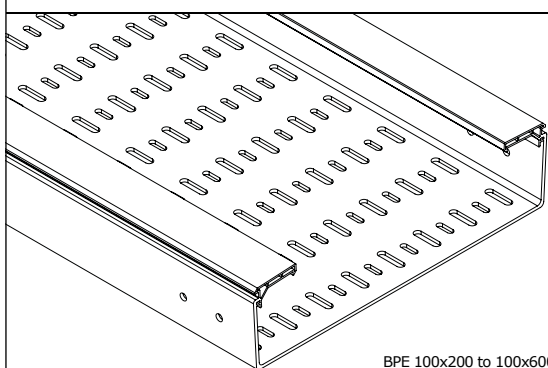


Certificado Nº SGI 3198065/12

## BPE



BPE 60x100 to 60x300



BPE 100x200 to 100x600

## Models (HxB):

60x100; 60x150; 60x200; 60x300; 100x200; 100x300; 100x400; 100x600.

Types: Slotted or solid bottom.

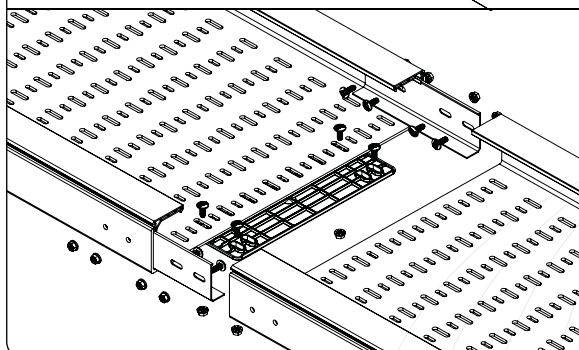
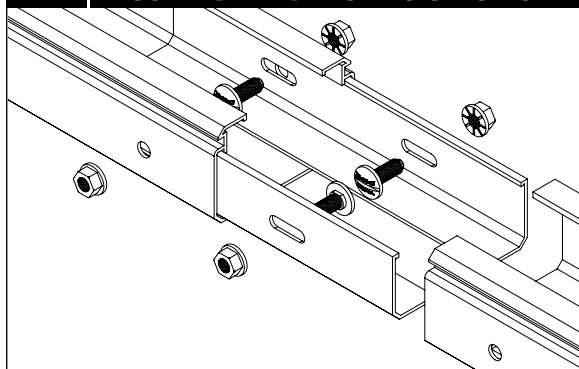
Finishes: PVC M1 UV RAL 7035

## Characteristics of the tray:

- Non metallic system
- Resistant to UV radiation. Excellent behaviour in outdoor installation.
- Impact Strength: 20J, except 60x100 with 10J
- Minimum temperature: -4 °F
- Maximum temperature: 140 °F
- Non-flame propagating component
- Without electrical continuity
- Electrical insulating component
- Dielectric Strength 18 +/- 2 kV/mm
- High protection inside and outside against corrosive substances
- Plastic system resistant to humidity/salty and chemical environments according to DIN 8061 and ISO/TR 10358
- M1 reaction to fire acc. to UNE 23727
- Glow wire test degree 1760 °F, EN 60695-2-11
- Flammability UL 94-V0, ANSI/UL 94-1995
- Limiting Oxygen Index LOI>50%, EN ISO 4589
- Comply with RoHS directive, 2011/65/UE
- Raw material without silicone



## ASSEMBLING INSTRUCTIONS



- For the assembly, two union joints and four M8 Bolt sets are needed for each stretch (8 for H100 models). For trays with a width  $\geq 400$  mm it is necessary to use the JUBPE-C base joint to accomplish the requirements of full load transverse arrow indicated by IEC 61537. This union requires 4 screw set CTBP M8 PVC, and it can be placed inside or outside the cable tray.
- Tray installation for electrical systems should NOT run under other types of canalizations such as water, vapour or gas canalizations.
- To guarantee a good ventilation, we recommend installing the trays keeping a minimum distance of 250 mm between each tray.
- Suitable for wet, salty and chemical aggressive environments.
- To assure good performance under expansions, the increase in temperature must be noted, between the installation and the maximum temperature expected. Depending on the expected growth in the temperature ( $\Delta T$ ) leave a gap (h) between cable trays according to the following table :

$\Delta T$ (°F)	h (mm)
68	5
86	7
104	9
122	11

#### Accessories:

The family has a large range of accessories such as: Divider profile, horizontal bend, vertical inside bend, vertical outside bend, end cap, lateral derivation, union joint, articulated union joint, horizontal hinged joint and screw set M8 PVC.

## TESTS RESULTS ACCORDING TO UL 568

### - Safe working load:

SWL values for 104 °F

NEMA classification	MODEL	Safe Working Load - kg/m (lb/ft)		
		2,4 m (8 ft)	1,8 m (6 ft)	1,5 m (5 ft)
-	BPE-60x100	3,1 (2,1)	5,5 (3,7)	8 (5,4)
-	BPE-60x150	4,2 (2,8)	7,6 (5,1)	10,9 (7,3)
-	BPE-60x200	19,3 (13)	34,3 (23,1)	49,5 (33,2)
5AA	BPE-60x300	21,2 (14,2)	37,8 (25,4)	54,4 (36,5)
5A	BPE-100x200	33,1 (22,3)	59 (39,6)	84,9 (57,1)
8AA	BPE-100x300	52,4 (35,2)	93,2 (62,6)	134,3 (90,2)
8A	BPE-100x400	81,3 (54,6)	144,6 (97,2)	208,3 (140)
8B	BPE-100x600	121,7 (81,8)	216,5 (145,4)	311,7 (209,5)

SWL values for 140 °F

NEMA classification	MODEL	Safe Working Load - kg/m (lb/ft)		
		2,4 m (8 ft)	1,8 m (6 ft)	1,5 m (5 ft)
-	BPE-60x100	2 (1,3)	3,6 (2,4)	5,2 (3,5)
-	BPE-60x150	2,7 (1,8)	4,9 (3,3)	7,1 (4,7)
-	BPE-60x200	12,6 (8,4)	22,4 (15)	32,2 (21,6)
-	BPE-60x300	13,8 (9,3)	24,6 (16,5)	35,4 (23,8)
5AA	BPE-100x200	21,6 (14,5)	38,4 (25,8)	55,3 (37,1)
5A	BPE-100x300	34,1 (22,9)	60,7 (40,8)	87,4 (58,7)
8AA	BPE-100x400	53 (35,6)	94,2 (63,3)	135,7 (91,1)
8A	BPE-100x600	79,3 (53,3)	141 (94,7)	203 (136,4)

NOTE: Tests according to UL 568 Method A (Load Before Destruction), with 1.5 Safety factor

- Water absorption: The absorption of water by the material is minor than 0.5 percent.
- Dielectric strength: There is no dielectric breakdown in the material after conditioning.
- Weathering: The material retain more than 75% of the original recorded flexural strength.
- Combustibility of cable tray assemblies: Not emit flaming or glowing particles or dropping particles that ignite the cotton layer situated below the flame application point
- Flame spread: Material meet a flame spread index lower than 25.