



WALL-MOUNT JUNCTION BOXES  
**WEATHERPROOF IP67 - 1/4 TURN SCREWS:**  
**PROTECTION AND VERSATILITY**

## JUNCTION BOXES 1/4 TURN SCREW SYSTEM - IP67



Elettrocanali presents a new range of weatherproof IP67 utility boxes with 1/4 turn fast screw system. Available in three configurations: **smooth sides**, **soft nipples** and **knockouts type**. It represents a **cost-effective** and **versatile solution** for any electrical project. It features **quick** and **secure closing** rust-free captive quick-release fasteners and the ability to **close and seal the box with just a quarter turn**.

This range has been **designed for extreme conditions** both indoors and out. Three boxes made from **different materials**: heat resistant Halogen-Free ABS , UL94 self-extinguishing V0 ABS and Polycarbonate type

**The Halogen-Free ABS** version is **versatile** as it suits to all general applications, while the self-extinguishing ABS type is used for specific cases where **resistance to abnormal heat** (960°C) is required. The Polycarbonate type represents the **ultimate solution for Heavy-Duty applications** thanks to the **excellent thermal** and **shock resistance**.



# PLUS



## VERSATILITY

A wide range of junction boxes for any installation requirements in all kinds in all application areas

### ALL NUMBERS AT A GLANCE:

- **5** SIZES (110x110x60mm, 160x115x75mm, 200x150x85mm, 250x200x100mm, 310x230x125 mm)
- **3** MATERIALS (Halogen-Free ABS, Self-extinguishing ABS, Polycarbonate)
- **3** VERSIONS (smooth sides, with soft nipples or with knockouts)



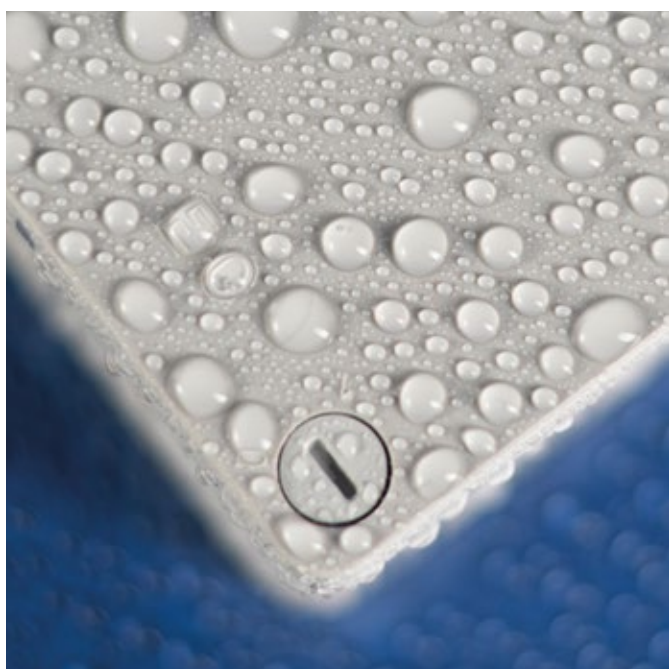
## 1/4 TURN SCREW SYSTEM

These **new junction boxes** feature **quick** and **secure closing** thanks to the **1/4 turn** captive screw system, for an easy wiring and inspection. **Two-sided plumbing system** and **rust-free materials** make them **practical** and **durable**.



## RESISTANCE

**Protection** against **moisture** and **dust** is ensured with **high protection rating IP67**. Moreover these junction boxes are **ideal for environments that experience extreme mechanical conditions**, making them the perfect choice for all **Heavy-Duty applications**.



RANGE



HALOGEN FREE ABS FOR ANY APPLICATION	SIZES	JUNCTION BOX WITH SOFT NIPPLES		JUNCTION BOX WITH SMOOTH SIDES		JUNCTION BOX WITH METRIC KNOCKOUTS
		IP55		IP67		
	110x110x60	EC491C4	EC491C4CR ●	EC492C4	EC492C4CR ●	EC493C4 M16/20/25
	160x115x75	EC491C5	EC491C5CR ●	EC492C5	EC492C5CR ●	EC493C5 M16/20/25
	200x150x85	EC491C6	-	EC492C6	-	EC493C6 M20/25/32
	250x200x100	EC491C7	-	EC492C7	-	EC493C7 M20/25/32
	310x230x125	EC491C8	-	EC492C8	-	EC493C8 M20/25/32
SELF-EXTINGUISHING ABS FOR SPECIFIC APPLICATIONS	110x110x60	EC491C4A		EC492C4A		-
	160x115x75	EC491C5A		EC492C5A		-
	200x150x85	EC491C6A		EC492C6A		-
	250x200x100	EC491C7A		EC492C7A		-
	310x230x125	EC491C8A		EC492C8A		-
POLYCARBONATE FOR MAXIMUM RESISTANCE	110x110x60	-		EC492C4P		-
	160x115x75	-		EC492C5P		-
	200x150x85	-		EC492C6P		-
	250x200x100	-		EC492C7P		-
	310x230x125	-		EC492C8P		-

## ACCESSORIES



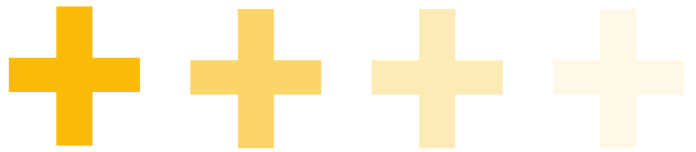
METAL BACK PLATE	INSULATING BACK PLATE	DIN RAIL	DOUBLE INSULATION PLUGS	DOUBLE INSULATION BRACKET
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-	-	-	ECTFLEX13	-
-	-	-	ECTFLEX18	-
EC450P6	EC451P6	EC460D6	ECTFLEX19	EC600SF
EC450P7	EC451P7	EC460D7	ECTFLEX19	EC600SF
EC450P8	EC451P8	EC460D8	ECTFLEX19	EC600SF

-	-	-	ECTFLEX13	-
-	-	-	ECTFLEX18	-
EC450P6	EC451P6	EC460D6	ECTFLEX19	EC600SF
EC450P7	EC451P7	EC460D7	ECTFLEX19	EC600SF
EC450P8	EC451P8	EC460D8	ECTFLEX19	EC600SF

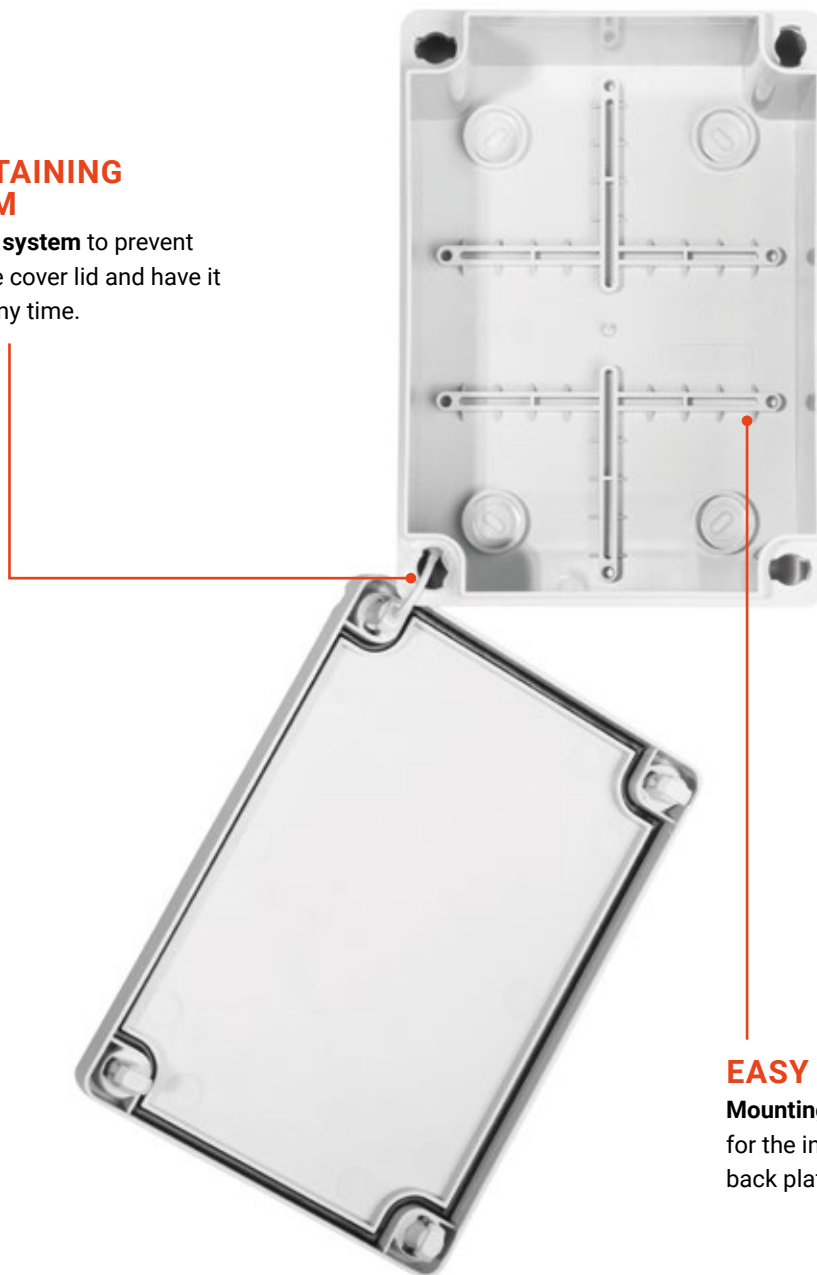
-	-	-	ECTFLEX13	-
-	-	-	ECTFLEX18	-
EC450P6	EC451P6	EC460D6	ECTFLEX19	EC600SF
EC450P7	EC451P7	EC460D7	ECTFLEX19	EC600SF
EC450P8	EC451P8	EC460D8	ECTFLEX19	EC600SF

### ADVANTAGES



#### LID-RETAINING SYSTEM

**Anchoring system** to prevent losing the cover lid and have it handy at any time.



#### EASY AND HANDY

**Mounting lines on the bottom** for the installation of DIN rails, back plates or terminal blocks.

## NEW SHAPE

Lid-enveloping shape with reduced outer edge for an **appealing aesthetic**. Robust corner structure to avoid torsion effect.

## MAXIMUM INSULATION

Closing caps for bottom screw fasteners and additional wall-mount brackets (available from the size C6) to achieve **double insulation**.



## INCREASED CAPACITY

New designed higher bottom makes it **suitable to host larger diameter fittings** than the standard boxes.

## SOFT NIPPLES

Soft nipples with **high grip and easy cutting**. Provision for **condensate drainage** openings on bottom to be used when provided.

# A **COMPLETE** SYSTEM OF UTILITY BOXES AND ACCESSORIES







**5 SIZES**  
**3 MATERIALS**  
**3 VERSIONS**

# SERIES 49



## JUNCTION BOXES HALOGEN FREE ABS



IP55 HF GWT 650°C

### WALL-MOUNT JUNCTION BOXES - 1/4 TURN - SOFT NIPPLES

Code	Color	External Dimensions	No. of entries	Max. diameter of installable pipe	Packaging
		mm		mm	pcs
EC491C4	RAL 7035	110x110x60	7	25	75
EC491C5		160x115x75	10	25	44
EC491C6		200x150x85	10	32	24
EC491C7		250x200x100	12	32	9
EC491C8		310x230x125	12	32	6



IP67 HF GWT 650°C

### WALL-MOUNT JUNCTION BOXES - 1/4 TURN - SMOOTH SIDES

Code	Color	External Dimensions	Packaging
		mm	pcs
EC492C4	RAL 7035	110x110x60	90
EC492C5		160x115x75	50
EC492C6		200x150x85	28
EC492C7		250x200x100	10
EC492C8		310x230x125	6



IP67 HF GWT 650°C

### WALL-MOUNT JUNCTION BOXES - 1/4 TURN - METRIC KNOCKOUTS

Code	Color	External Dimensions	No. knockouts - Diameter sizes	Max. diameter of installable pipe	Packaging
		mm		mm	pcs
EC493C4	RAL 7035	110x110x60	7 - M16/20/25	25	90
EC493C5		160x115x75	10 - M16/20/25	25	50
EC493C6		200x150x85	10 - M20/25/32	32	28
EC493C7		250x200x100	12 - M20/25/32	32	10
EC493C8		310x230x125	12 - M20/25/32	32	6

## JUNCTION BOXES SELF-EXTINGUISHING ABS V0



EC491C4A

EC491C5A

EC491C7A

IP55

GWT  
960°C



### WALL-MOUNT JUNCTION BOXES - 1/4 TURN - SOFT NIPPLES

Code	Color	External Dimensions	No. of entries	Max. diameter of installable pipe	Packaging
		mm		mm	pcs
EC491C4A	RAL 7035	110x110x60	7	25	75
EC491C5A		160x115x75	10	25	44
EC491C6A		200x150x85	10	32	24
EC491C7A		250x200x100	12	32	9
EC491C8A		310x230x125	12	32	6



EC492C4A

EC492C5A

EC492C7A

IP67

GWT  
960°C



### WALL-MOUNT JUNCTION BOXES - 1/4 TURN - SMOOTH SIDES

Code	Color	External Dimensions	Packaging
		mm	pcs
EC492C4A	RAL 7035	110x110x60	90
EC492C5A		160x115x75	50
EC492C6A		200x150x85	28
EC492C7A		250x200x100	10
EC492C8A		310x230x125	6

## JUNCTION BOXES POLYCARBONATE - 120°C



EC492C4P

EC492C5P

EC492C7P

IP67

HF

GWT  
850°C

120°C

### WALL-MOUNT JUNCTION BOXES - 1/4 TURN - SMOOTH SIDES

Code	Color	External Dimensions	Packaging
		mm	pcs
EC492C4P	RAL 7035	110x110x60	90
EC492C5P		160x115x75	50
EC492C6P		200x150x85	28
EC492C7P		250x200x100	10
EC492C8P		310x230x125	6

## JUNCTION BOXES HALOGEN FREE ABS RAL 3000



EC491C4CR



EC491C5CR

IP55

HF

GWT  
650°C

### WALL-MOUNT JUNCTION BOXES - 1/4 TURN - SOFT NIPPLES

Code	Color	External Dimensions	No. of entries	Max. diameter of installable pipe	Packaging
		mm		mm	pcs
EC491C4CR	RAL 3000	110x110x60	7	25	75
EC491C5CR		160x115x75	10	25	44



EC492C4CR



EC492C5CR

IP67

HF

GWT  
650°C

### WALL-MOUNT JUNCTION BOXES - 1/4 TURN - SMOOTH SIDES

Code	Color	External Dimensions	Packaging
		mm	pcs
EC492C4CR	RAL 3000	110x110x60	90
EC492C5CR		160x115x75	50

## ACCESSORIES BACK PLATES

### BACK PLATES FEATURES

Made of anti-corrosion electrolytically treated galvanized steel.

Self-tapping screws for fixing included.

Housing in boxes facilitated by pre-drilled holes.

Also available in insulating material.



EC450P



EC451P

### BACK PLATES

Code		For Enclosure Size	Thickness		Packaging
Metal	Insulating	mm	metal - mm	insulating - mm	pcs
<b>EC450P6</b>	<b>EC451P6</b>	200x150	1,2	4,0	1/30
<b>EC450P7</b>	<b>EC451P7</b>	250x200	1,2	4,0	1/30
<b>EC450P8</b>	<b>EC451P8</b>	310x230	1,2	4,0	1/20

## ACCESSORIES DIN RAILS / TERMINAL BLOCKS

### DIN RAIL FEATURES

Made of anti-corrosion tropicalized galvanized steel.

Guides in accordance with DIN EN 50022 standard.



EC450D6

### DIN RAILS EN 50022 FOR JUNCTION BOXES

Code	For Enclosure Size	Length	Packaging
DIN Rail	mm	mm	pcs
<b>EC460D6</b>	200x150	180	10
<b>EC460D7</b>	250x200	230	10
<b>EC460D8</b>	310x230	290	10



EC890050

### TERMINAL BLOCKS WITH SUPPORT FOR DIN RAIL EN 50022

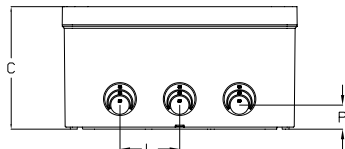
Code	Holes and Section	Color	Packaging
	mm <sup>2</sup>		pcs
<b>EC890050</b>	Section 1x35 - 6x16		10/340
<b>EC890051</b>	Section 1x35 - 1x25 - 10x16		10/320
<b>EC890052</b>	Section 1x35 - 2x25 - 12x16		10/240
<b>EC890053</b>	Section 1x35 - 6x16		10/340
<b>EC890054</b>	Section 1x35 - 1x25 - 10x16		10/320
<b>EC890055</b>	Section 1x35 - 2x25 - 12x16		10/240
<b>EC890056</b>	Section 1x35 - 6x16		10/340
<b>EC890057</b>	Section 1x35 - 1x25 - 10x16		10/320
<b>EC890058</b>	Section 1x35 - 2x25 - 12x16		10/240



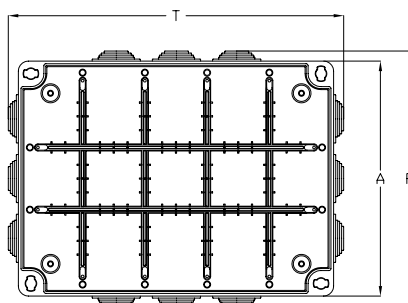
## TECHNICAL DRAWINGS AND DIMENSION TABLES

### JUNCTION BOXES

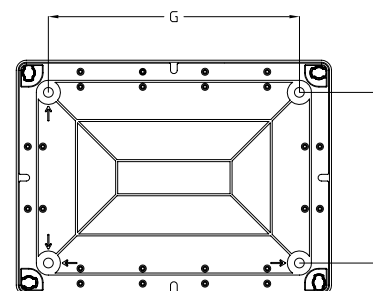
SHORT SIDE HOLE SPACES  
NIPPLES/KNOCKOUTS VERSION  
(C7-C8 SIZES)



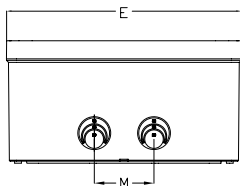
OVERALL DIMENSIONS



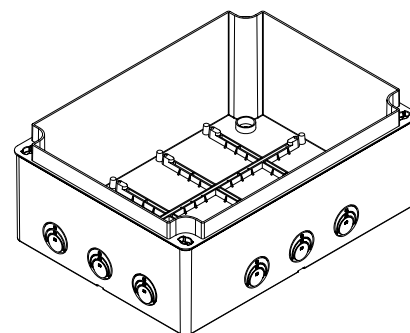
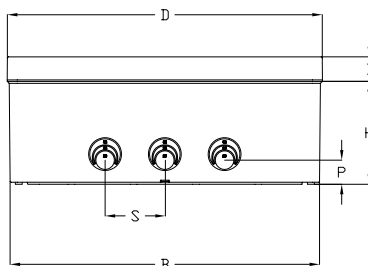
OVERALL DIMENSIONS  
BACK SIDE



SHORT SIDE HOLE SPACES  
NIPPLES/KNOCKOUTS VERSION  
(C4-C5-C6 SIZES)



LONG SIDE HOLE SPACES  
NIPPLES/KNOCKOUTS VERSION



#### WALL-MOUNT JUNCTION BOXES - 1/4 TURN - SOFT NIPPLES

CODE	A	B	C	D	E	F	G	H	I	L	M	P	R	S	T
EC491C4	118	118	65	112,5	112,5	60	60	50	15	-	37,5	24	136	-	136
EC491C5	113	158,5	76,5	162,5	117,2	66	111	63,5	15	-	40	24	131	42	176,5
EC491C6	145,7	195	87	150	200	101	143	72	15	-	54	29	163,7	54	213
EC491C7	198,2	248,2	102	254	204	140	194	79	23	53,7	-	30	218,2	58,5	268,2
EC491C8	228	307	121	314	234	170	250	104	23	59,5	-	30	248	59,5	327

#### WALL-MOUNT JUNCTION BOXES - 1/4 TURN - SMOOTH SIDES

CODE	A	B	C	D	E	F	G	H	I	L	M	P	R	S	T
EC492C4	118,3	118,3	65	112,5	112,5	60	60	50	15	-	-	-	-	-	-
EC492C5	113	158,5	76,5	162,5	117,2	66	111	63,5	15	-	-	-	-	-	-
EC492C6	145,7	195	87	150	200	101	143	72	15	-	-	-	-	-	-
EC492C7	198,2	248,2	102	254	204	140	194	79	23	-	-	-	-	-	-
EC492C8	228	307	121	314	234	170	250	104	23	-	-	-	-	-	-

#### WALL-MOUNT JUNCTION BOXES - 1/4 TURN - METRIC KNOCKOUTS

CODE	A	B	C	D	E	F	G	H	I	L	M	P	R	S	T
EC493C4	118	118	65	112,5	112,5	60	60	50	15	-	37,5	18	-	-	-
EC493C5	113	158,5	76,5	162,5	117,2	66	111	63,5	15	-	40	18	-	42	-
EC493C6	145,7	195	87	150	200	101	143	72	15	-	54	22	-	54	-
EC493C7	198,2	248,2	102	254	204	140	194	79	23	53,7	-	24	-	58,5	-
EC493C8	228	307	121	314	234	170	250	104	23	59,5	-	24	-	59,5	-



# FEATURES AND SPECIFICATIONS

- STANDARD COLOUR: **GREY RAL 7035**.
- **HEAT-RESISTANT** MATERIAL: HALOGEN-FREE ABS-BASED SHOCKPROOF TECHNOPOLYMER.
- **SELF-EXTINGUISHING** MATERIAL: SHOCKPROOF ABS-BASED SELF-EXTINGUISHING V0 (UL94) TECHNOPOLYMER.
- FOR OUTDOOR USE: **HIGH RESISTANCE TO AGING AND UV RAYS**.
- **HALOGEN FREE**: CADMIUM AND HALOGEN FREE ACID AND BASIC CHEMICALS RESISTANT PLASTIC MATERIALS.
- **IMPACT RESISTANCE IK07** (UP TO 6J).
- **RESISTANCE TO ABNORMAL HEAT** (GWT ACCORDING TO IEC 60695-2-11):
  - **650 °C** FOR **STANDARD VERSIONS**
  - **960 °C** FOR **VERSIONS TYPE A (SELF-EXTINGUISHING)**
  - **850 °C** FOR **POLYCARBONATE TYPE**
- TEMPERATURES DURING INSTALLATION: **MINIMUM -25 °C, MAXIMUM +60 °C**.
- **OPERATING TEMPERATURES**:
  - **MINIMUM -25 °C, MAXIMUM +70 °C** (ABS)
  - **MAXIMUM +120 °C** (POLYCARBONATE)
- RATED OPERATING VOLTAGE: **1000 Vac 1500 Vdc**.
- **PROTECTION RATING ACCORDING TO EN60529 STANDARD**: **IP55** FOR NIPPLES VERSION, **IP67** FOR SMOOTH SIDES AND KNOCKOUTS VERSIONS
- **FAST CLOSING WITH 1/4 TURN CAPTIVE SCREWS AND TWO-SIDED PLUMBING SYSTEM**.
- **DOUBLE INSULATION POSSIBILITY ACCORDING TO IEC 60670-1/24 STANDARDS BY MEANS OF SCREW CAPS**
- **SUITABLE FOR HOSTING BOTTOM BACK PLATES AND DIN RAILS**.
- **INDIVIDUALLY PACKED** WITH TRANSPARENT PROTECTIVE FILM AND IN A ROBUST CARTONS WITH IDENTIFICATION LABEL.
- STANDARD: **EN 60670-1:2005, EN 60670-22:2006**.
- **IN COMPLIANCE WITH THE SAFETY OBJECTIVES OF LOW-VOLTAGE DIRECTIVE 2014/3**.

