
Installation materials

Flexible and easy-to-install products



Installation materials from ABB

ABB's installation materials are designed for all the installation situations you face every day. Every kind of installation work can be done using just a few types of boxes and accessories. The boxes are very versatile and can be used for a variety of installations and construction materials. All installation boxes are made of halogen free material (IEC/61249-2-21).

ABB's installation materials include:

- Flush mounting boxes
- Flush mounting junction box
- Flush mounting ceiling box
- Surface mounting junction boxes
- Conduit bends, conduit extensions and bushing insulators
- Earthing products

ABB's range of installation materials offers reliable solutions for every installation need.

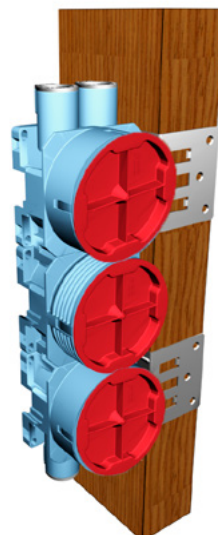
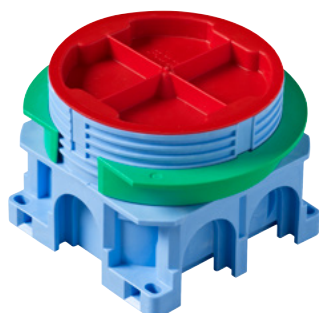


Flush mounting installation boxes, junction boxes and ceiling boxes



Piping materials and accessories for mounting and junction boxes



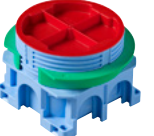


The AU60.5 combibox connects easily to other boxes in the Ideal series. AU60.5 has no inlets, providing easy connection of boxes – just use a PMR474 interconnector.



System Ideal series

The System Ideal series includes a wide range of products that covers even the most demanding installation needs. System Ideal was developed with a focus on details that streamline the work and produce good, cost-effective results. The available accessories make it a comprehensive


system. System Ideal meets the IEC/EN 60670:2005 standard and is approved for mounting in EI30 and EI60 firewalls. All Ideal boxes are made of halogen free material (IEC/61249-2-21). System ideal is widely used in both hollow wall and concrete structures.


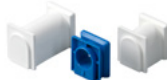










Mounting boxes			
	EAN	Type	Description
		Mounting box AU5.6	The mounting box includes a rotating, steplessly adjustable extension ring enabling installation on boards with a thickness of 13-27 mm. Installation depth is 55 mm and overall height 58-72 mm. The extension ring can be tilted 0-4° and the box has 2 opened branch inlets for 16/20 mm conduits. In addition, there are four knock-out inlets on the side, two 16 mm and one 20 mm inlet in the bottom. Made of halogen free material (IEC/61249-2-21) and fulfills the requirements of the glow wire test according to the standard IEC/EN60670: 2005 (850 °C).
		Mounting box AU60.1 (EI60)	The mounting box has a rotating ring for adjusting the screw holes for device installation in optimal angle and screw distance is c/c 60mm. The green adapter ring, delivered with the box, is used in single-board walls (12-13 mm). The ring is removed when the wall thickness is two boards (24-26 mm). The box has two fixed inlets, one of them is open and both inlets are equipped with a locking device in metal for reliable connection between the conduits and the box. Both flexipipe and stiff conduits can be connected to the inlets and the inlets have 16/20 mm piping adapters. In addition, there are four knock outs on the sides and two in bottom for different inlets. The box is also tested in firewalls EI60 (mounting instruction separately). Manufactured from halogen free material (IEC/61249-2-21), the box complies with the IEC/EN60670:2005 glow wire test (850 °C).
		Mounting box AU60.5 (EI60)	The mounting box has a total of six knock-out inlets, two of which are on the same side. The bottom of the box provides access for two rear inlets. The green adapter ring, delivered with the box, is used in single-board walls (12-13 mm). The ring is removed when the wall thickness is two boards (24-26 mm). The boxes can be connected to each other with the PMR474 interconnector. Made of halogen free material (IEC/61249-2-21) and fulfills the requirements of the glow wire test according to the standard IEC/EN60670: 2005 (850 °C).
	6438199005027	AU5.6	Mounting box, board thickness 13-27 mm
	6418677334788	AU60.1	Mounting box for 12-13/24-26 mm board
	6438199003405	AU60.5	Mounting box for 12-13/24-26 mm board
Junction boxes for flush mounting			
	EAN	Type	Description
		Mounting box AU67 (EI60)	The mounting box has a rotating ring for adjusting the screw holes for device installation in optimal angle and screw distance is c/c 67mm. The green adapter ring, delivered with the box, is used in single-board walls (12-13 mm). The ring is removed when the wall thickness is two boards (24-26 mm). There are five fixed inlets for 16 mm conduits, three are open, and two fixed inlets for 20 mm conduits. All inlets are equipped with a locking device in metal for reliable connection between the conduits (flexi or stiff pipe) and the box. In addition, there are two knock outs on the sides and two in the bottom for different inlets. Manufactured from halogen free material (IEC/61249-2-21), the box complies with the IEC/EN60670:2005 glow wire test (850 °C).
		Ceiling junction box AU70	The ceiling junction box has two screw pillars for M4 screws, e.g. for attaching lamp connectors or roof lids and screw distance is c/c 70 mm. The green adapter ring, delivered with the box, is used when board thickness is 12-13 mm. The ring is removed when the board thickness is 24-26 mm e.g. double plaster board. There are 8 fixed inlets for 20 mm conduits, and 6 have an adapter for 16 mm conduit. All inlets are equipped with a locking device in metal for reliable connection between the conduits (flexi or stiff pipe) and the box. In addition, there are two knock outs in the bottom for different inlets. Manufactured from halogen free material (IEC/61249-2-21), the box complies with the IEC/EN60670:2005 glow wire test (850 °C).
	6418677332340	AU67	Mounting box
	6418677332357	AU70	Ceiling junction box

System ABB series






The System ABB series includes flush-mounted mounting boxes with or without inlets, as well as boxes in several heights for a range of applications. System ABB also includes products for post-mounting in board walls as well as outlet

boxes with or without inlets. The products are made of halogen-free material (IEC/61249-2-21) and fulfill the requirements of the glow wire test in accordance with the IEC/EN 60670:2005 standard (850 °C).

Mounting boxes			
EAN	Type	Description	
Mounting box			
 <p>The mounting box is designed for installation in all new buildings and in prefabricated building elements, and can be used with cast materials. It has a total of five knock-out inlets, two of which are on the same side. The bottom of the box provides access for two rear inlets. The boxes can be connected to each other with the PMR474 interconnector. Made of halogen free material (IEC/61249-2-21) and fulfills the requirements of the glow wire test according to the standard IEC/EN60670: 2005 (850 °C) and is approved for mounting in EI60 firewalls.</p>			
6410011523643	AU3.2	Mounting box	
Low mounting box			
<p>The box has 2 branch inlets with locking devices for Ø 20 conduits. A separate inlet can be attached to the side opposite the fixed inlets. The bottom of the box has two inlets. Inlets cannot be attached to the sides of the box, but the sides can be used to connect boxes with each other using a PMR474 interconnector cut level with the bottom of the box. The height of the box is 38 mm. Made of halogen free material (IEC/61249-2-21) and fulfills the requirements of the glow wire test according to the standard IEC/EN60670: 2005 (850 °C).</p>			
6410011523155	AU6.2	Low mounting box	
Mounting box, branched 2-way			
<p>The characteristics of this box are the same as the AU3.2; the difference is in the inlets. The box has 2 branch inlets for Ø 20 conduits. There are also 3 knock-out on the side, and 2 on the bottom. Made of halogen free material (IEC/61249-2-21) and fulfills the requirements of the glow wire test according to the standard IEC/EN60670: 2005 (850 °C) and is approved for mounting in EI60 firewalls.</p>			
6410011523032	AU5.2	Mounting box, branched 2-way	
High mounting box			
<p>The AU5.32 mounting box is 73 mm high. The box has 2 branch inlets for Ø 20 conduit. There are also 3 knock-out inlets altogether at the side, and 2 at the bottom. Made of halogen free material (IEC/61249-2-21) and fulfills the requirements of the glow wire test according to the standard IEC/EN60670: 2005 (850 °C).</p>			
6418677335068	AU5.32	High mounting box	
Double mounting box			
<p>The box AU17.2 has knock-outs for 11 inlets on the side, and 6 on the bottom. It can accommodate a device with a triple inlet. If necessary, the box may be divided in two by using partition plate PMR345. Made of halogen free material (IEC/61249-2-21) and fulfills the requirements of the glow wire test according to the standard IEC/EN60670: 2005 (850 °C).</p>			
6410011523896	AU17.2	Double mounting box	
6410011523940	PMR345	Partition plate	

Accessories for mounting boxes			
	EAN	Type	Description
	Extension rings		
	6418677301087	ATI16	Extension ring 2 mm
	6410011523902	PMR94	Extension ring 13 mm
	6410011523964	PMR410	Extension ring 28 mm
	6410011523919	AK17	Extension ring for AU17.2
	Interconnectors		
	Mounting boxes are connected together with interconnectors. The boxes are attached side by side with PMR474, with c/c distance 71 mm. The PMR490 and PMR502 are used, when a larger distance between the boxes are desired, e.g. to separate antenna/data outlets and socket outlets and use own coverplates. Made of halogen free material (IEC/61249-2-21).		
	6410011527740	PMR474	Interconnector
	6410011527887	PMR490	Interconnector 85 mm
	6410011527924	PMR502	Interconnector 100 mm
	Inlets		
	6410011527542	AN16	16 mm
	6410011527573	AN20	20 mm
	6410011527252	AN25	25 mm
	Angle inlet		
	6410011527221	ANK20	20 mm
	Back inlets		
	6410011527146	ANP16	16 mm
	6410011527184	ANP 20	20 mm
	6410011527214	ANP20.1	20 mm, angled
	Reducer		
	6410011527306	AN20.16	Reducer Ø 20 mm / Ø 16 mm
	Mounting fixtures to wooden or steel frames for System Ideal		
	The System Ideal boxes (AU5.6, AU60.1 and AU60.5) can be mounted in hollow walls with mounting fixtures, which are nailed to wooden frames or screwed to steel frames.		
	6418677335907	AS26.12	Truss fixture 12 mm
	6418677335914	AS26.24	Truss fixture 24 mm
	Mounting box support		
	Mounting box supports are used to fit the System Ideal boxes (AU5.6, AU60.1 and AU60.5) between two boards in hollow walls. Made of halogen free material (IEC/61249-2-21).		
	6418677329890	AS27	Support 25 mm, white
	6418677332425	AS27.12	Support 12 mm, blue
	Conduit extensions		
	Conduit extensions are used to join both rigid and flexible plastic conduits together. It is suitable to both hollow walls and concrete casting. Each extension has a locking device, which can be opened by twisting and pulling out at the same time. Made of halogen free material (IEC/61249-2-21).		
	6410011301166	AJ16	Conduit extension Ø 16 mm
	6410011301203	AJ20	Conduit extension Ø 20 mm
	6410011301258	AJ25	Conduit extension Ø 25 mm
	6410011301326	AJ32	Conduit extension Ø 32 mm
	6410011301401	AJ40	Conduit extension Ø 40 mm
	6410011301500	AJ50	Conduit extension Ø 50 mm
	Conduit adaptor		
	The AJ16.20 conduit adaptor is used when changing the plastic conduit size from Ø 16 mm to Ø 20 mm. Made of halogen free material (IEC/61249-2-21).		
	6410011305164	AJ16.20	Conduit adaptor Ø 16/20
	Conduit adaptor for inlet		
	The AJF16.20 conduit adaptor is used when connecting Ø 20 mm plastic conduit to Ø 16 mm inlet. Made of halogen free material (IEC/61249-2-21).		
	6418677300073	AJF16.20	Conduit adaptor
	Flexible conduit extension		
	6410011301838	AJP20	Flexible conduit extension 20 mm

System ABB

Conduit bends				
	EAN	Type	Description	
	Curved 90° conduit bends			
	The conduit bends are equipped with locking glue and are used to improve working efficiency and safety in conduit installations. The most common bend is 90°, but the range also includes other angles.			
	6410011110164	JMKL16	Conduit extension VPS16	
	6410011110201	JMKL20	Conduit extension VPS20	
	6410011110256	JMKL25	Conduit extension VPS25	
	6410011110324	JMKL32	Conduit extension VPS32	
	6410011110409	JMKL40	Conduit extension VPS40	
6410011110508	JMKL50	Conduit extension VPS50		
	Pre-bent curve conduit extensions 45°			
	6418677300219	JMKL16.1	Conduit extension IBVS16	
	6418677300226	JMKL20.1	Conduit extension IBVS20	
	6418677300233	JMKL25.1	Conduit extension IBVS25	
6418677300240	JMKL32.1	Conduit extension IBVS32		
	Pre-bent 90° conduit bends with sleeve in short end			
	Curve conduit extensions are equipped with a sleeve for continuing the conduit from the product's short end.			
	6418677300349	JMKL16.2	Conduit extension IBVT16	
6418677300363	JMKL16.3	Conduit extension IBVG16		
6418677300356	JMKL20.2	Conduit extension IBVT20		
	Pre-bent 90° conduit bends with sleeve in long end			
	Pre-bent curve conduit extensions with a 90° angle and small radius are used alongside the conduit end pieces AJ5.20, JMKL25.11 and JMKL32.11, the bushing insulators AJ5.20, AJI13, AJI14 and AJI15 and the mounting and junction boxes in concrete casting. Curve conduit extensions are equipped with a sleeve for continuing the conduit from the product's long end.			
	6418677300370	JMKL16.4	Conduit extension IBVH16	
	6418677300387	JMKL16.5	Conduit extension IBVHL16	
	6418677300394	JMKL16.6	Conduit extension IBVK16	
	6418677300417	JMKL16.7	Conduit extension IBVL16	
	6418677300431	JMKL16.8	Conduit extension IBV16	
	6418677300400	JMKL20.3	Conduit extension IBVH20	
	6418677300424	JMKL20.4	Conduit extension IBVL20	
	6418677300448	JMKL20.5	Conduit extension IBV20	
	6418677300455	JMKL25.2	Conduit extension IBV25	
	6418677300462	JMKL32.2	Conduit extension IBV32	
	6418677300462	JMKL40.1	Conduit extension IBV40	
	6418677300486	JMKL50.1	Conduit extension IBV50	
		Bushing insulators		
		This conduit end piece is used for the termination of plastic conduits in concrete casting. The end piece is cut to the desired length after casting. The trunking is continued with a conduit of the same size. The plug prevents the casting from entering the conduit. It is easy to extend trunking from the end pieces with the pre-bent curve conduit extensions.		
		6418677300493	JMKL16.11	IBVV16
		6418677300509	JMKL20.11	IBVV20
		6418677300516	JMKL25.11	IBVV25
6418677300523		JMKL32.11	IBVV32	
6418677300547		JMKL16.12	IBVM16	
6418677300554		JMKL20.12	IBVM20	
6418677300561		JMKL25.12	IBVM25	
6418677300578		JMKL16.13	IBVVML16	
6418677300585		JMKL20.13	IBVVML20	

Conduit extensions



EAN	Type	Description
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Bushing insulators

Bushing insulators are designed for feedthrough situations of electrical conduits in concrete structures. They are also used for connecting conduits in concrete slabs (floors) to conduits in hollow walls. The bushings have a protective foil that prevents the casting from entering the conduit. Made of halogen free material (IEC/61249-2-21).

6418677300110	AJI6	I116, for 1 Ø 16 mm
6418677300127	AJI7	I216, for 2 Ø 16 mm
6418677300141	AJI9	I416, for 4 Ø 16 mm
6418677300158	AJI10	I120, for 1 Ø 20 mm
6418677300165	AJI11	I220, for 2 Ø 20 mm
6418677300172	AJI12	I125, for 1 Ø 25 mm
6418677300189	AJI13	I132, for 1 Ø 32 mm
6418677300196	AJI14	I140, for 1 Ø 40 mm
6418677300202	AJI15	I150, for 1 Ø 50 mm



Bushing insulators 45 degrees

Bushing insulators are designed for feedthrough situations of electrical conduits in concrete structures. They are also used for connecting conduits in concrete slabs (floors) to conduits in hollow walls. Made of halogen free material (IEC/61249-2-21).

6418677300301	AJI52	IS116, Ø 16 mm
6418677300318	AJI53	IS120, Ø 20 mm
6418677300325	AJI54	IS125, Ø 25
6418677300332	AJI55	IS132, Ø 32





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