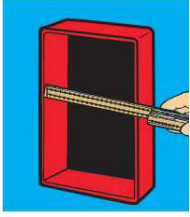


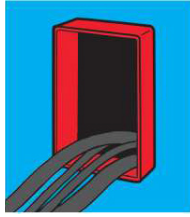
# INSTALLATION GUIDE for IECEx and ATEX

MCT Brattberg Multi Cable Transits of type RGB, RGBO, RGG, RGGO, RGS, RGSF, RGSFB, RGSC, RGSR, RGSK and RGS-btb

## Vertical installation



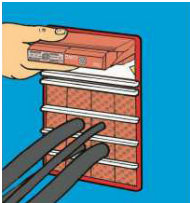
Measure the opening to ensure it conforms with tolerance standards, 120 mm ( $\pm 0,25$ ). For frame with half width 60,25 ( $\pm 0,25$ ).



Lubricate the inside of the frame and pull the cables through, placing the largest at the bottom.



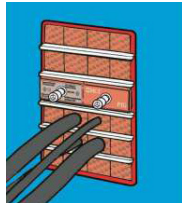
Insert the last two ATEX/Ex stayplates before the last row of blocks.



Install the PTG Presswedge at the top of the frame before the last row of blocks.

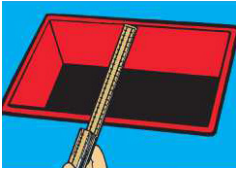


Insert the last row of blocks and tighten the bolts to a torque of 20 Nm.

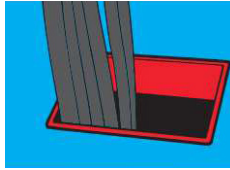


Alternatively the PTG presswedge can be placed at any position within the frame.

## Vertical installation



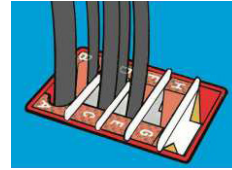
Measure the opening to ensure it conforms with tolerance standards, 120 mm ( $\pm 0,25$ ). For frame with half width 60,25 ( $\pm 0,25$ ).



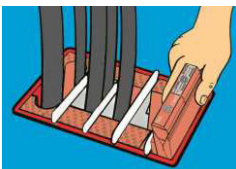
Lubricate the inside of the frame and pull the cables through, placing the largest at the end.



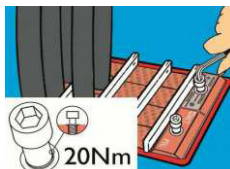
Gravity makes it necessary to use the stayplates to hold the insert blocks in place. Therefore, place the stayplates of ATEX/Ex type in the frame first.



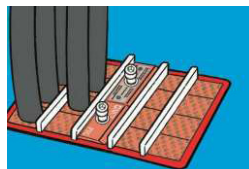
Insert the outer blocks (A, B, C etc) The block A should be turned 90° as shown in the sketch.



Install the PTG Presswedge in the frame and pre-tighten to secure the blocks. Insert the remaining blocks.



Tighten the bolts to a torque of 20 Nm.



The PTG Presswedge can be placed in any position within the frame.

This equipment has been assessed against following standards:  
IEC 60079-0:2017 Ed 7  
IEC 60079-7:2015 Ed 5+amd 1 2018  
IEC 60079-31:2013 Ed 2

The purchaser should make the manufacturer aware of any External effects or Aggressive substances that the equipment may be exposed to.

### "Conditions of Use" for Ex Equipment or "schedule of limitations" for Ex Components, if any:

These transits are suitable for use within an operating temperature range of -60°C to +70°C.

The blocks must be assembled using the manufacturers supplied tallow lubricant which must be applied to all faces of the sealing block prior to assembly.

The transits are only for use with circular cables and circular pipes.

The assembled frame and cables shall be left for a period of 48 hours prior to the installation being energised.

When the frame is used for increased safety or dust protection, the frame shall be suitably sealed (in accordance with IEC 600079-14) to maintain the ingress protection rating of the associated enclosure.

The fasteners of all variants shall be torqued up to 20 Nm.

Non-metallic surfaces shall be protected from electrostatic charging hazards (propagating brush discharges and/or rubbing). Cables and pipes used with the block size range to 15/4 to 15/9 and 120/92 to 120/110 shall be additionally clamped to ensure that pulling or twisting is not transmitted to any connections.

When the frame is used for increased security or dust protection, the frame should be properly sealed (in accordance with GB/T 3836.15) to maintain the intrusion protection class for the associated enclosure with the specified EMI gasket.

Cables can be mixed and installed anywhere in the frame, but they must be of the same module in the same row so that a support plate can be placed between each layer of blocks.

## Endpacking

This instruction applies to :

### PTG Presswedge

The PTG compresses the system and completing the seal. Manufactured from Lycron with stainless steel (316L) or Black Chromate Mild Steel (1144) hardware.

### PTG 120



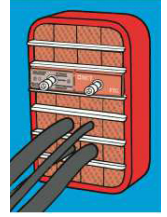
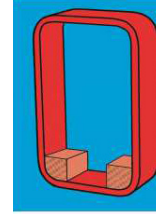
### PTG 40



### PTG 60

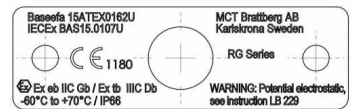
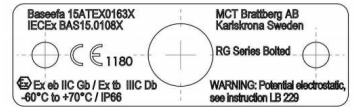


## RGSC frame



RGSC Frames:  
Begin packing using the special corner blocks, place the PTG presswedge anywhere within the frame, except at the bottom.

### Marking attached to PTG



Putting safety first

LB229 Rev. 6

## Maximum and minimum cable size for each module for RGB, RGG and RGS series of frames.

Module 15	
15/	For cable Ø
4	3,5-4,5
5	4,5-5,5
6	5,5-6,5
7	6,5-7,5
8	7,5-8,5
9	8,5-9,5

Additional clamping required

Module 20	
20/	For cable Ø
4	3,5-4,5
5	4,5-5,5
6	5,5-6,5
7	6,5-7,5
8	7,5-8,5
9	8,5-9,5
10	9,5-10,5
11	10,5-11,5
12	11,5-12,5
13	12,5-13,5
14	13,5-14,5
15	14,5-15,5
16	15,5-16,5

Module 30	
30/	For cable Ø
12	11,5-12,5
13	12,5-13,5
14	13,5-14,5
15	14,5-15,5
16	15,5-16,5
17	16,5-17,5
18	17,5-18,5
19	18,5-19,5
20	19,5-20,5
21	20,5-21,5
22	21,5-22,5
23	22,5-23,5
24	23,5-24,5

Module 40	
40/	For cable Ø
22	21,5-23,5
24	23,5-25,5
26	25,5-27,5
28	27,5-29,5
30	29,5-31,5
32	31,5-33,5
34	33,5-35,5

Module 60	
60/	For cable Ø
32	31,5-33,5
34	33,5-35,5
36	35,5-37,5
38	37,5-39,5
40	39,5-41,5
42	41,5-43,5
44	43,5-45,5
46	45,5-47,5
48	47,5-49,5
50	49,5-51,5
52	51,5-53,5
54	53,5-55,5

Module 90	
90/	For cable Ø
50	49,5-51,5
52	51,5-53,5
54	53,5-55,5
56	55,5-57,5
58	57,5-59,5
60	59,5-61,5
62	61,5-63,5
64	63,5-65,5
66	65,5-67,5
68	67,5-69,5
70	69,5-71,5
72	71,5-73,5
74	73,5-75,5
76	75,5-77,5
78	77,5-79,5
80	79,5-81,5

Module 120	
120/	For cable Ø
72	71,5-73,5
74	73,5-75,5
76	75,5-77,5
78	77,5-79,5
80	79,5-81,5
82	81,5-83,5
84	83,5-85,5
86	85,5-87,5
88	87,5-89,5
90	89,5-91,5

Module 120	
90/	For cable Ø
92	91,5-93,5
94	93,5-95,5
96	95,5-97,5
98	97,5-99,5
100	99,5-101,5
102	101,5-103,5
104	103,5-105,5
106	105,5-107,5
108	107,5-109,5
110	109,5-111,5

Additional clamping required

Add block modules	
20/	For cable Ø
4-8	3,5-8,5
9-13	8,5-13,5
30/	For cable Ø
14-18	13,5-18,5
19-23	18,5-23,5
40/	For cable Ø
24-28	23,5-28,5
29-33	28,5-33,5
60/	For cable Ø
34-38	33,5-38,5
39-43	38,5-43,5
44-48	43,5-49,5
90/	For cable Ø
50-58	49,5-59,5
60-68	59,5-69,5



Putting safety first

MCT Brattberg AB