



CABLE ENTRY SEALS FOR CABINETS AND ENCLOSURES

We Seal Your World™

ABOUT ROXTEC

■ World leader in seals for multiple cables and pipes

- Founded in Sweden in 1990
- Inventor of Multidiameter[™]
- Local support in more than 70 markets
- Certified according to ISO 9001/14001 and EN 13980
- More than 250 product certifications and safety listings

A truly flexible sealing system	4
No more cutting off connectors	5
More cable, less cabinet	6
Certified protection	7
Roxtec cable sealing solutions for every industry	8
Roxtec solutions for bonding, grounding and EMC	12
Roxtec Transit Designer™	14
We create customized solutions	15
Roxtec cabinet seal selection guide	16

ROXTEC CABINET SEALING SOLUTIONS

ComSeal LW	18
CRL	20
ComSeal	22
ComShelt	25
C ComShelt	27
EzEntry	29
CF 24	32
RG M63	34
C RS T	36
CF 8/CF 32	38
CF 16	40
HD 32	42
C KFO	44
Modules and wedge for C KFO	46
KFO	47
GHM	49
Modules and wedge for KFO and GHM	51
Installation tools	52

A truly flexible sealing system

Multidiameter[™] by Roxtec

Our innovative solution for adaptability simplifies design, installation and maintenance. Our sealing modules have removable layers enabling a perfect fit to cables and pipes of different sizes. Just peel off layers until the module fits.

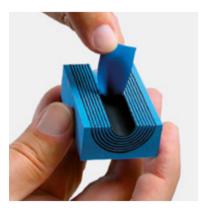
Install today, expand tomorrow

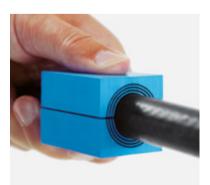
One area efficient Roxtec seal can replace up to 32 traditional cable glands. The built-in spare capacity makes it easy to open up the seal and change or add cables, without punching new holes or adding material, whenever there is a need.

BENEFITS

- Plan for extra capacity
- Save design and installation time
- Avoid costly surprises onsite
- Add cables without adding cost









No more cutting off connectors



Roxtec sealing solutions allow you to route and seal pre-terminated cables without cutting connectors.

Roxtec seals have large openings making them ideal for use with preterminated cables. You can adjust and trim your system at the factory and eliminate the time-consuming and insecure cutting and reattaching of connectors onsite. The result is better connectivity and less risk for EMI and signal loss.

BENEFITS

- Maintain the integrity of the connection
- Long-term operational reliability
- Shorter installation times
- Reduction of installation costs

More cable, less cabinet



Maximize space in your cabinets. Avoid drilling – and the risk of new leak paths.

Roxtec seals allow multiple cables or pipes through one opening. You eliminate the need for punching holes for cable glands and make it possible to reduce the size and cost of cabinets. The seals can be pre-packed for quick field installation.

FEATURES AND BENEFITS

- Multiple cables and pipes per opening
- Enables smaller cabinets
- Allows work-bench assembly
- Adapter plates for cabinets

Certified protection





Roxtec cable and pipe entry seals provide protection against a wide range of hazards. Typical examples are gas, smoke, dust, fire, vibration and electromagnetic interference. Roxtec offers sealing solutions that are certified by industry recognized certifying authorities and have been tested and found compliant by recognized testing laboratories worldwide.

TESTED AND APPROVED

- IP 54, IP 66/67, IP69K
- Fire protection
- Water-tightness
- Vibration damping
- IECEx/ATEX
- UL/NEMA 3, 3R, 4, 4X, 12, 12K and 13
- EMC
- Pull-out resistance

Fewer warranty claims

By standardizing with Roxtec, our customers have been able to achieve safer and more reliable installations of cables with connectors. This reduces their costs for repairs after delivery due to component failure and improper routing.

Roxtec cable sealing solutions for every industry

Thanks to their reliability and extreme flexibility, our sealing solutions are used in a wide range of industries and applications. You find Roxtec seals for cabinets and enclosures in demanding environments on land and at sea all over the world.



MACHINE BUILDERS/ PANEL SHOPS

ROLLING STOCK

MILITARY VEHICLES



Power supply cabinet: The Roxtec CF 32 can accommodate several cables in a small space.



Driver cab and engine room: Customized sealing solution installed to keep tight between the driver cab and engine room.



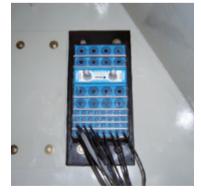
Robotic routing machine control cabinet: The compact design of the Roxtec CF 16 maximizes free space.



High pressure wash down environments: The Roxtec CF 16 AISI 304 maintains high sanitary requirements.



Light railway vehicle: The fire rated Roxtec CF 24 F1 helps ensure passenger safety by preventing the spread of fire into the passenger compartment.



Fire-proof and pressure resistant cable seal.



V-hull vehicles: The Roxtec CF 16 cable seal is used in the walls and on the roof/ ceiling of vehicles to prevent the ingress of water and dust.



Ambulances: The Roxtec C RS T seal for roof-top cable entries.



Radar control cabinet: The Roxtec CF 32 is used for sealing cables to radar systems.

CONSTRUCTION





Transformers and switchgear: The Roxtec GHM solution provides protection to ensure operational reliability.

POWER (WIND, NUCLEAR, SOLAR)



I/C cabinets: Neat and area efficient cable entry seals suitable for safety and non-safety applications.



Converter system: The Roxtec EzEntry[™] cable entry seal protects against dust and water.



Control cabinets: The Roxtec CF 32 PE for potential equalization is used for generator and turbine cubicle marshalling.



Junction boxes and control cabinets: The Roxtec CF 32/32 provides IP 67 and NEMA 4 protection, sealing up to 32 cables in a single small cut-out.



Wind turbine: Roxtec transits for potential equalization as well as the Roxtec standard system for control cabinets in the nacelle.

PROCESSING AND HEAVY INDUSTRIES





Ex e terminal box: The Roxtec CF 32 Ex frame can accommodate 32 SWA or MC cables.



DCS/PLC and I/O marshalling cabinets: Roxtec solutions reduce required cabinet space, ensure functionality and provide capacity for additional cables.



Instrumentation and communication: The Roxtec CF 32 provides protection against coal dust.

OFFSHORE OIL AND GAS

MARINE

TELECOM





Generators, thrusters and motor terminal boxes: IP and vibration protection. The seals allow routing of cables with terminations. Available in EMC versions.



Captain's bridge: Route wiring through Roxtec cabinet seals and into enclosures without compromising IP ratings.



Bonding and grounding: Roxtec BG[™] provides solutions for termination of conduits, armored and metal clad cables in control cabinets and junction boxes.



The Roxtec HD 32 is our lighter frame, a bolted alternative that is suitable for both indoor and outdoor applications. EMC versions also available.



Radio room: RFI shielded EMC and firestop solutions for radar and navigation equipment in bulkheads.



Generators and propulsion system: Roxtec seals are adaptable to fit cables and pipes of different sizes.





Base station shelter: The Roxtec CRL provides increased line capacity to maxedout entry port panels without modification of the existing shelter or entry port.



Communication centers: The Roxtec GHM solution seals fiber optics and cables in floors and outer walls.



Telecom cabinet: The Roxtec RG M63 cable glands are weather, water, pest and dust tight.

Roxtec BG[™] B for bonding and grounding



The Roxtec BG B and BG (bonding and grounding) product family is our cable entry system for sealing large quantities of metal clad or armored cables in the least amount of space. Use it in building structures, cabinets and enclosures to save design and installation time – and to reduce weight and costs!

Save space and money

Roxtec BG B and BG solutions are lighter and up to 70 percent more area efficient than cable glands and a direct replacement to glands for terminating metal clad and armored cable types. With a single cable entry from Roxtec, you can seal varying outside diameters of single or multiple cables while ensuring a certified bonding or grounding termination.

More cables, less cabinet

For cabinets and electrical enclosures, Roxtec BG B and BG solutions allow for the size and weight of cabinets to be greatly



reduced. A single cut-out for a standard Roxtec CF 32 BG B kit can accommodate up to 32 cables, which drastically reduces the amount of space required when compared to 32 individual cable glands.

Replacing "pig-tails"

Flattened braids, combining large copper masses in a flat form, are often used to ensure earth paths for higher frequencies. The Roxtec BG B and BG solution has such a braid embedded and surrounded by the solid metal frame. This solution can easily replace weak solutions such



as "pig-tails" – individual earthing conductors connecting the cable armor to the earthing bar.

FEATURES AND BENEFITS

- Bond and ground metal clad and armored cables
- Ensure electrical safety and protect life and assets
- Reduce the area required by 70% compared to cable glands
- Perfect for walls, floors, cabinets and enclosures
- Fire rated and available for hazardous locations (Ex)

ROXTEC BG™ B PRODUCT LINE

Roxtec BG B provides electrical safety and protection against lightning strikes.



Roxtec BG B/BG (bonding and grounding) handles high currents and bonds and grounds armored or shielded cables. It has high current withstand capability for short-circuit and surge currents.

Roxtec EMC solutions



Ensuring EMC, electromagnetic compatibility, is a two way challenge. You must limit the effects of EMI, electromagnetic interference, entering the enclosure, while minimizing the potential for EMI generated within the enclosure from escaping and causing interference with nearby electronics.

Multiple risk prevention

Roxtec EMC solutions can perform multiple risk prevention functions at the same time. They can combine protection against disturbances from technical systems with protection against risk factors such as fire, smoke, water, gas, explosion and vibration. So why use many components, labor time and space when one Roxtec system is enough?



Increased EMI exposure

Electromagnetic disturbances travel either conducted along a metallic object or propagate through air. The conductive armor in a cable can carry unwanted signals and cause interference in a system far away from the original source. It is crucial for designers, engineers and owners to consider the risk of EMI exposure and to include EMC into the initial electrical design for cabinets, enclosures, and terminal and junction termination boxes. Roxtec seals support best practice EMI protection principles by providing a single entry and by integrating the earth path.

Electromagnetic shielding

Roxtec also provides solutions for cables going in or out of electromagnetically sealed enclosures. The seals are tested to a minimum of 18GHz to prove the shielding effectiveness. Transfer impedance from cable shield to frame is also measured up to 30MHz.

ROXTEC EMC PRODUCT LINES

Roxtec EMC solutions provide protection against EMI.



Roxtec ES provides electromagnetic shielding. It blocks and diverts high frequency radiated and conducted EMI and electromagnetic pulses, EMP.



Roxtec PE provides protection against conducted EMI carried by cable screens or metal pipes.

Roxtec Transit Designer[®]

The Roxtec Transit Designer is a free, web-based engineering tool. It reduces project risks and simplifies product selection as well as the entire process of designing, purchasing and installing cable and pipe transits.

Its batch import with auto validation feature helps designers create and update thousands of transits automatically and take full control of their largest project designs. They can also validate their complete project by using the Roxtec CAD symbols and the Roxtec Transit Designer for easy incorporation of the transits into the design.

Always available, everywhere

The Roxtec Transit Designer is accessible online. Share your work with project teams anywhere in the world, and our experts are available through the chat function. To start using it, sign-up on www.roxtec.com.

FEATURES

- Free web-based application
- Simple product selection
- Manufacturer-approved outputs
- Improves project efficiency
- Batch import with auto validation
- Import multiple transits to speed up design work



SIMPLE USER INPUT

Cable/pipe schedule or estimates

Sealing/certification requirements

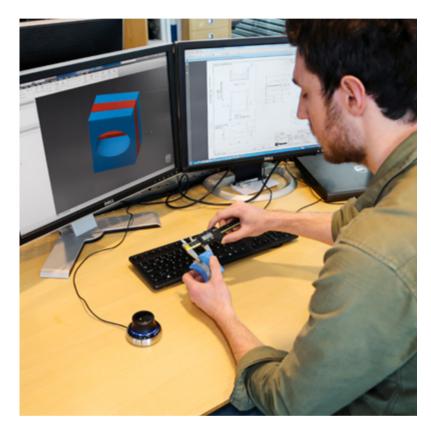
Installation preferences

Material quality selection

APPROVED OUTPUT

2D drawings in DXF and PDF 3D STEP Bill of material in Excel Installation instructions

We create customized solutions







We are here to solve your sealing problem – even when it requires the creation of a new customized solution. We have an entire Customer Service team with designers and engineers ready to develop tailored seals according to your needs.

Experience in innovation

If you need a special solution, just inform your local Roxtec representative about the specific requirements. In many cases, we have already supplied a similar sealing solution, somewhere in the world, allowing us to respond very quickly to your request.

ROXTEC CABINET SEAL SELECTION GUIDE













CF 16 ComSeal LW CF 8/32 EzEntry **RG M63** ComSeal RATINGS IP 44 1 IP 54 IP 55 1 IP 66/67 ./ 1 1 1 IP 69K UL/NEMA 3R UL/NEMA 3, 12, 12K 1 UL/NEMA 4, 4X, 12, 13 1 1 1 1 TRANSIT Single cable 1 Multiple cables 1 1 1 1 1 1 MATERIAL Composite frame 1 Aluminum 1 1 1 Powder coated mild steel 1 Nickel-plated brass 1 Stainless steel 1 1 1 € € 🖌 6

UL FILE NUMBERS

COMPANY NAME	CATEGORY NAME	FILE NUMBER
Roxtec Inc	Firestop Devices	XHJI.R16085
Roxtec Inc	Firestop Devices Certified for Canada	XHJI7.R16085
Roxtec Inc	Industrial Control Panels – Component	NITW2.E197106
Roxtec Inc	Industrial Control Panels Certified for Canada – Component	NITW8.E197106
Roxtec Inc	Plastics – Component	QMFZ2.E179133
Roxtec International AB	Firestop Devices	XHJI.R15556
Roxtec International AB	Firestop Devices Certified for Canada	XHJI7.R15556
Roxtec International AB	Industrial Control Panels – Component	NITW2.E209828
Roxtec International AB	Industrial Control Panels Certified for Canada – Component	NITW8.E209828
Roxtec International AB	Plastics – Component	QMFZ2.E185619

For more information, go to www.roxtec.com





HD 32









C KFO





C RS T

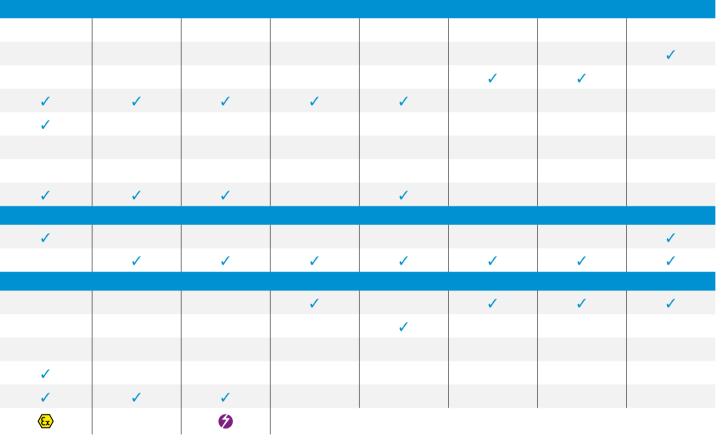
GHM

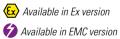
KFO

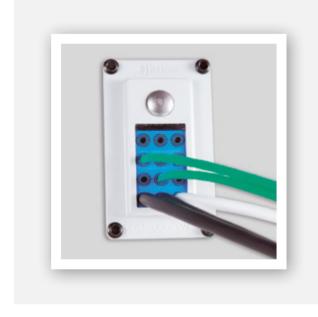
CF 24

C ComShelt

CRL







Roxtec ComSeal[™] LW

The Roxtec ComSeal LW is a light-weight and area efficient cable and pipe sealing solution for cabinets. The frames are made out of cast aluminum and used with adaptable sealing modules. The product is supplied as ready-made kits which include all necessary components.

- Available in six different sizes
- Attached on inside or outside of cabinet
- Version available for the FL 21 cut-out



ComSeal™ LW kits, integrated compression unit, aluminum



ComSeal LW 6



ComSeal LW 12 Con





ComSeal LW 16

RATINGS IP: 44	UL/NEMA: 3R					
Kit	Diameter	range and number of cal	bles/pipes	We (kg)	Weight (ka) (lb)	
	0+3.5-10.5 mm 0+0.138-0.413 in (EM 15w40)	0+3.5-16.5 mm 0+0.138-0.650 in (EM 20w40)	0+9.5-32.5 mm 0+0.374-1.280 in (EM 40 10-32)	5		
ComSeal LW 6/3		2 cables/pipes	1 cable/pipe	0.322	0.710	107788
ComSeal LW 6/6		6 cables/pipes		0.322	0.710	107789
ComSeal LW 6/12	12 cables/pipes			0.322	0.710	107790
ComSeal LW 12/3			3 cables/pipes	0.445	0.981	107791
ComSeal LW 12/6		4 cables/pipes	2 cables/pipes	0.445	0.981	107792
ComSeal LW 12/9		8 cables/pipes	1 cable/pipe	0.445	0.981	107793
ComSeal LW 12/12		12 cables/pipes		0.445	0.981	108020
ComSeal LW 12/3 FL 21			3 cables/pipes	0.488	1.076	107799
ComSeal LW 12/6 FL 21		4 cables/pipes	2 cables/pipes	0.488	1.076	107800
ComSeal LW 12/9 FL 21		8 cables/pipes	1 cable/pipe	0.488	1.076	107802

ComSeal[™] **LW kits**, integrated compression unit, aluminum

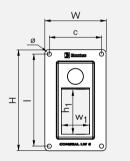
	Diameter	range and number of cal	We (kg)			
Kit					(lb)	Art. No
	0+3.5-10.5 mm 0+0.138-0.413 in (EM 15w40)	0+3.5-16.5 mm 0+0.138-0.650 in (EM 20w40)	0+9.5-32.5 mm 0+0.374-1.280 in (EM 40 10-32)			
ComSeal LW 12/12 FL 21		12 cables/pipes		0.488	1.076	108018
ComSeal LW 16/4			4 cables/pipes	0.536	1.180	107794
ComSeal LW 16/7		4 cables/pipes	3 cables/pipes	0.536	1.180	107795
ComSeal LW 16/10		8 cables/pipes	2 cables/pipes	0.536	1.180	107796
ComSeal LW 16/16		16 cables/pipes		0.536	1.180	107797

Modules and frames can be ordered separately.

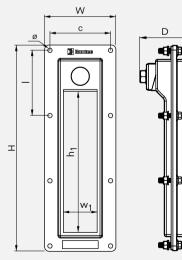
ComSeal[™] LW frame, technical information

D

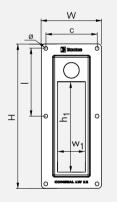
ComSeal LW 6



ComSeal LW 16



ComSeal LW 12



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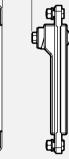
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т			COMMENT IN 12 PLES	h1) w ₁		

ComSeal LW 12 FL 21

С



ComSeal LW 16

(in)

2.697

2.165

9.173

6.299

2.913

1.575

3.169

0.217

(mm)

68.5

55

233

160

73.5

40

80.5

5.5

ComSeal LW 6		ComSea	al LW 12	ComSeal LW 12 FL 21		
(mm)	(in)	(mm)	(in)	(mm)	(in)	
68.5	2.697	68.5	2.697	62	2.441	
55	2.165	55	2.165	55	2.165	
133	5.236	193	7.598	216	8.504	
60	2.362	120	4.724	120	4.724	
121	4.764	90.5	3.583	193	7.598	
40	1.575	40	1.575	40	1.575	
80.5	3.169	80.5	3.169	88	3.465	
5.5	0.217	5.5	0.217	8.5	0.335	

For ComSeal LW 12 FL 21: If the wall is thinner than 2 mm, a Roxtec ComSeal 12 counter flange 2CV0001020219 is recommended (not supplied in the kit)

Max wall thickness: ComSeal LW 6, 12, 16: 10 mm (0.394")

ComSeal LW 12 FL 21: 7 mm (0.275")



Roxtec CRL seal

Roxtec CRL is a round expansion frame for 4" and 5" holes. Its square packing space houses modules and services, such as cables, pipes and fiber optics. Compression is integrated in the frame.

- Attachment by expansion
- Designed to be installed on a shelter port hatch plate (not manufactured by Roxtec)

CRL kit, CRL 4": Polyamide, PA 6.6 25% GF, CRL 5": Primed mild steel





CRL 4"/4



CRL 4"/5











CRL 4"/1

CRL 4"/9

CRL 5"/1

CRL 5"/4

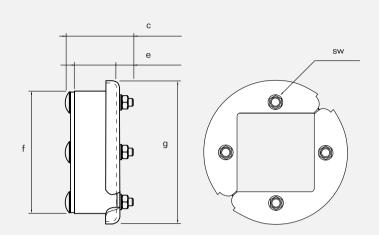
CRL 5"/5

CRL 5"/9

	Number of	Diameter	range and number of ca	hles/nines	We	ight	
Kit	cables/pipes	Diameter		ibles/pipes	(kg)	(lb)	Art. No
		0+4-16.5 mm 0+0.157-0.650 in (CM22w66)	0+10-29 mm 0+0.394-1.142 in (CM33w66)	0+24-54 mm 0+0.945-2.126 in (CM66)			
CRL 4"/1	1			1 cable/pipe	0.6	1.323	102997
CRL 4"/4	4		4 cables/pipes		0.6	1.323	102993
CRL 4"/5	5	3 cables/pipes	2 cables/pipes		0.6	1.323	102994
CRL 4"/9	9	9 cables/pipes			0.6	1.323	102995
CRL 5"/1	1			1 cable/pipe	0.95	2.094	CRL0005010012
CRL 5"/4	4		4 cables/pipes		0.95	2.094	CRL0005040012
CRL 5"/5	5	3 cables/pipes	2 cables/pipes		0.95	2.094	CRL0005050012
CRL 5"/9	9	9 cables/pipes			0.95	2.094	CRL0005090012

Modules and frames can be ordered separately.

CRL seal, technical information



	CR	L 4"	CR	L 5"
Pos	(mm)	(in)	(mm)	(in)
с	74.0	2.913	74.0	2.913
е	59.0	2.323	33.0	1.299
f	98.0	3.858	123.0	4.843
g	115.0	4.528	140.0	5.514
sw	10	0.394	9.525	0.375



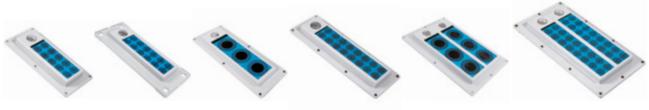
Roxtec ComSeal[™]

The Roxtec ComSeal is a light-weight and area efficient cable sealing solution for cabinets. The frames are available in cast aluminum and cast acid-proof stainless steel, AISI 316, and used with adaptable sealing modules. The product is supplied as ready-made kits which include all necessary components.

- Available in six different sizes
- Attached on inside or outside of cabinet



ComSeal[™] **kits**, integrated compression unit, aluminum



ComSeal 10

ComSeal 12

ComSeal 15



ComSeal 30

ComSeal 32

RATINGS IP: 55 UL/NEMA: 3, 12, 12K							
Kit	Diameter	Diameter range and number of cables/pipes			ight (lb)	Art. No	
	0+3.5-16.5 mm 0+0.138-0.650 in (CM 20W40)	0+9.5-32.5 mm 0+0.374-1.280 in (CM 40 10-32)	0+28-43 mm 0+1.102-1.693 in (CM 50)				
ComSeal 10/4	2 cables/pipes	2 cables/pipes		0.515	1.13	105299	
ComSeal 10/7	6 cables/pipes	1 cable/pipe		0.515	1.13	105301	
ComSeal 10/10	10 cables/pipes			0.515	1.13	105302	
ComSeal 12/3		3 cables/pipes		0.61	1.34	105303	
ComSeal 12/6	4 cables/pipes	2 cables/pipes		0.61	1.34	105305	
ComSeal 12/9	8 cables/pipes	1 cable/pipe		0.61	1.34	105306	
ComSeal 12/12	12 cables/pipes			0.61	1.34	105307	
ComSeal 15/3			3 cables/pipes	0.91	2.0	105308	
ComSeal 16/4		4 cables/pipes		0.666	1.47	105310	
ComSeal 16/7	4 cables/pipes	3 cables/pipes		0.666	1.47	105312	

ComSeal™ kits, integrated compression unit, aluminum

	Diamatau	renze and number of col	lee/ninee	We	ight	
Kit	Diameter range and number of cables/pipes			(kg)	(lb)	Art. No
	0+3.5-16.5 mm 0+0.138-0.650 in (CM 20W40)	0+9.5-32.5 mm 0+0.374-1.280 in (CM 40 10-32)	0+28-43 mm 0+1.102-1.693 in (CM 50)			
ComSeal 16/10	8 cables/pipes	2 cables/pipes		0.666	1.47	105313
ComSeal 16/16	16 cables/pipes			0.666	1.47	105314
ComSeal 30/6			6 cables/pipes	1.40	3.09	105315
ComSeal 32/8		8 cables/pipes		1.259	2.78	105316
ComSeal 32/14	8 cables/pipes	6 cables/pipes		1.259	2.78	105320
ComSeal 32/20	16 cables/pipes	4 cables/pipes		1.259	2.78	105321
ComSeal 32/32	32 cables/pipes			1.259	2.78	105322

Modules and frames can be ordered separately.

ComSeal[™] **kits**, integrated compression unit, acid-proof stainless steel



ComSeal 10 AISI 316

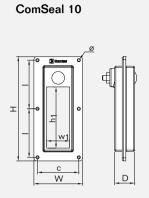
ComSeal 16 AISI 316

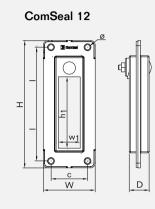
ComSeal 32 AISI 316

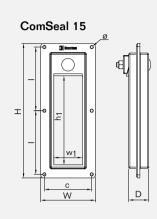
RATINGS IP: 55 UL/NEMA: 3, 12, 12K							
Kit	Diameter range and	number of cables/pipes	(kg)	eight (Ib)	Art. No		
	0+3.5-16.5 mm 0+0.138-0.650 in (CM 20W40)	0+9.5-32.5 mm 0+0.374-1.280 in (CM 40 10-32)					
ComSeal 10/4 AISI 316	2 cables/pipes	2 cables/pipes	1.096	2.42	105676		
ComSeal 10/7 AISI 316	6 cables/pipes	1 cable/pipe	1.096	2.42	105677		
ComSeal 10/10 AISI 316	10 cables/pipes		1.096	2.42	105678		
ComSeal 16/4 AISI 316		4 cables/pipes	1.407	3.11	105679		
ComSeal 16/7 AISI 316	4 cables/pipes	3 cables/pipes	1.407	3.11	105680		
ComSeal 16/10 AISI 316	8 cables/pipes	2 cables/pipes	1.407	3.11	105681		
ComSeal 16/16 AISI 316	16 cables/pipes		1.407	3.11	105682		
ComSeal 32/8 AISI 316		8 cables/pipes	2.395	5.28	105683		
ComSeal 32/14 AISI 316	8 cables/pipes	6 cables/pipes	2.395	5.28	105684		
ComSeal 32/20 AISI 316	16 cables/pipes	4 cables/pipes	2.395	5.28	105685		
ComSeal 32/32 AISI 316		32 cables/pipes	2.395	5.28	105686		

Modules and frames can be ordered separately.

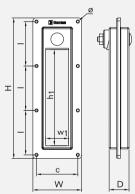
ComSeal[™] frame, technical information

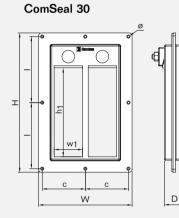




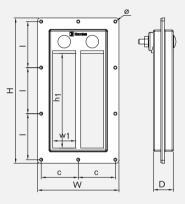


ComSeal 16









	ComSe	al 10	ComSe	al 12	ComSe	eal 15	ComSe	eal 16	ComSe	eal 30	ComSe	al 32
Pos	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)
С	68.5	2.697	62	2.441	78.5	3.091	68.5	2.697	71.5	2.815	61.5	2.421
D	33	1.299	33	1.299	33	1.299	33	1.299	33	1.299	33	1.299
Н	173	6.811	216	8.504	223	8.780	233	9.173	231	9.094	241	9.488
h1	100	3.937	120	4.724	150	5.906	160	6.299	150	5.906	160	6.299
I	80.5	3.169	193	7.598	105.5	4.154	73.7	2.902	109.5	4.311	76.33	3.005
w ₁	40	1.575	40	1.575	50	1.969	40	1.575	50	1.969	40	1.575
W	80.5	3.169	88	3.465	90.5	3.563	80.5	3.169	155	6.102	135	5.315
ø	5.5	0.217	8.5	0.335	5.5	0.217	5.5	0.217	5.5	0.217	5.5	0.217

Max wall thickness: ComSeal 10, 15, 16, 30, 32: 10 mm (0.394") ComSeal 12: 7 mm (0.275")

Roxtec ComSeal 12 fits the FL 21 knock-out



Roxtec ComShelt[™]

The Roxtec ComShelt is a sealing solution for cables and pipes of different sizes. The light-weight composite frame with integrated compression unit is designed for use in telecom shelters and cabinets. The product is supplied as ready-made kits which include all necessary components.

- Available in two different sizes
- Attached by bolting or riveting

ComShelt[™] **kits**, integrated compression unit, composite PA 6.6 33% GF



ComShelt S

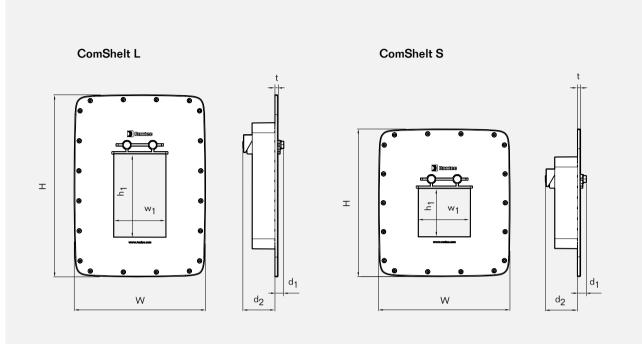


ComShelt L

RATINGS IP: 55									
Kit	Diameter	range and number of cal	We (kg)	ight (lb)	Art. No				
	0+3.5-16.5 mm (RM 20w40)	0+9.5-32.5 mm (RM 40 10-32)	0+24-54 mm (RM 60 24-54)						
ComShelt L/6			6 cables/pipes	3.9	8.59	CSL000000006			
ComShelt L/18	6 cables/pipes	12 cables/pipes		3.9	8.59	CSL000000018			
ComShelt S/12	6 cables/pipes	6 cables/pipes		2.8	6.17	CSS000000012			
ComShelt S/30	30 cables/pipes			2.8	6.17	CSS000000030			

Modules and frames can be ordered separately.

ComShelt[™], technical information



	ComS	Shelt L	ComShelt S			
Pos	(mm)	(in)	(mm)	(in)		
Н	422	16.614	342	13.465		
W	305	12.008	305	12.008		
h ₁	180	7.087	100	3.937		
w ₁	120	4.724	120	4.724		
t	7	0.276	7	0.276		
d ₁	20	0.787	20	0.787		
d ₂	70	2.756	70	2.756		



Roxtec C ComShelt[™]

The Roxtec C ComShelt is a sealing solution for cables and pipes of different sizes. The light-weight composite frame with integrated compression unit is designed for use in telecom shelters and cabinets. The product is supplied as ready-made kits which include all necessary components. It is available with an additional cover plate for closing a part of the opening until further installation is required.

■ Attached by bolting or riveting

C ComShelt[™] kits, integrated compression unit, composite PA 6.6 33% GF



C ComShelt



C ComShelt with cover plate

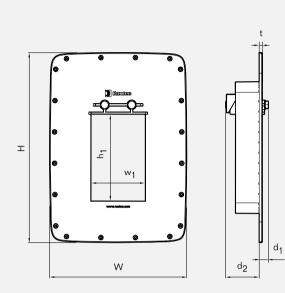


C ComShelt expansion module kit

RATINGS IP: 55										
	Diameter range and	number of cables/pipes	We	ight						
Kit	Diameter range and		(kg)	(lb)	Art. No					
	0+3.5-16.5 mm (CM 20w40)	0+9.5-32.5 mm (CM 40 10-32)								
C ComShelt/18	6 cables/pipes	12 cables/pipes	2.1	4.63	102716					
C ComShelt/12 with cover plate	6 cables/pipes	6 cables/pipes	2.1	4.63	104660					
C ComShelt expansion module kit		6 cables/pipes	0.5	1.10	109078					

Modules and frames can be ordered separately.

C ComShelt^m, technical information



Pos	(mm)	(in)
Н	358	14.173
W	255	10.039
t	8	0.315
h ₁	190	7.480
w ₁	120	4.724
d ₁	13	0.512
d ₂	22	0.866



Roxtec EzEntry[™]

The Roxtec EzEntry simplifies cable sealing in cabinets and enclosures. The single-side seal consists of a composite frame and adaptable modules. The product is supplied as ready-made kits which include all necessary components.

- Available in sizes from 4 to 32 cables
- Integrated compression unit
- Allows pre-terminated cables
- Versions available for the FL 21 knock-out and multipin 24 connector knock-out
- Available with stainless steel fasteners upon request to meet requirements in aggressive corrosive environments



EzEntry[™] kit, integrated compression unit, PA 66 25% GF



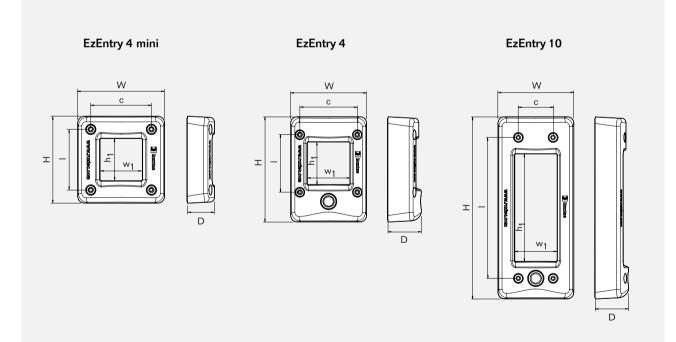
RATINGS	EzEntry 4 mini	EzEntry 4 mini: IP 55, UL/NEMA 12, 13 EzEntry 4, 10, 16, 24, 32: IP 66/67, UL/NEMA 12, 13							
Kit		Diam	eter range and n	umber of cables/	/pipes		Weight (kg) (lb)		Art. No
	0+3.5-10.5 mm 0+0.138-0.413 in (GM 13.3w40)	0+3.5-16.5 mm 0+0.138-0.650 in (GM 20w40)	0+3.5-16.5 mm 0+0.138-0.650 in (EM 20w40)	0+9.5-32.5 mm 0+0.374-1.280 in (EM 40 10-32)	0+3.5-16.5 mm 0+0.138-0.650 in (CM 20w40)	0+9.5-32.5 mm 0+0.374-1.280 in (CM 40 10-32)			
EzEntry 4 mini/4		4 cables/pipes					0.10	0.22	EZ0000000440
EzEntry 4 mini/9	9 cables/pipes						0.10	0.22	EZ00000000490
EzEntry 4/4			4 cables/pipes				0.13	0.29	EZ0000000044
EzEntry 10/4			2 cables/pipes	2 cables/pipes			0.30	0.65	EZ0000001004
EzEntry 10/7			6 cables/pipes	1 cable/pipe			0.30	0.65	EZ0000001007
EzEntry 10/10			10 cables/pipes				0.30	0.65	EZ0000001010

EzEntry[™] **kit**, integrated compression unit, PA 66 25% GF

Kit		Diam		We (kg)	ight (lb)	Art. No			
	0+3.5-10.5 mm 0+0.138-0.413 in (GM 13.3w40)	0+3.5-16.5 mm 0+0.138-0.650 in (GM 20w40)	0+3.5-16.5 mm 0+0.138-0.650 in (EM 20w40)	0+9.5-32.5 mm 0+0.374-1.280 in (EM 40 10-32)	0+3.5-16.5 mm 0+0.138-0.650 in (CM 20w40)	0+9.5-32.5 mm 0+0.374-1.280 in (CM 40 10-32)			
EzEntry 16/4				4 cables/pipes			0.39	0.86	EZ0000001604
EzEntry 16/10			8 cables/pipes	2 cables/pipes			0.39	0.86	EZ0000001610
EzEntry 16/16			16 cables/pipes				0.39	0.86	EZ0000001616
EzEntry 24/6						6 cables/pipes	0.80	1.77	EZ0000002406
EzEntry 24/15					12 cables/pipes	3 cables/pipes	0.80	1.77	EZ0000002415
EzEntry 24/24					24 cables/pipes		0.80	1.77	EZ0000002424
EzEntry 32/8						8 cables/pipes	1.03	2.27	EZ0000003208
EzEntry 32/20					16 cables/pipes	4 cables/pipes	1.03	2.27	EZ0000003220
EzEntry 32/32					32 cables/pipes		1.03	2.27	EZ0000003232

Modules and frames can be ordered separately.

EzEntry[™], technical information

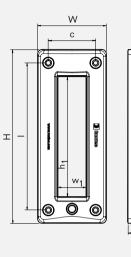


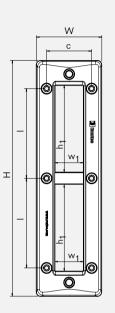
EzEntry[™], technical information

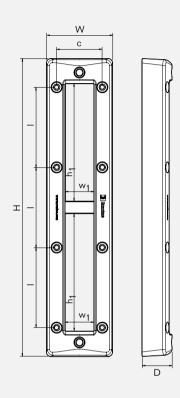




EzEntry 32







	EzEntry	4 mini	EzEnt	ry 4	EzEnt	ry 10	EzEnt	ry 16	EzEnt	ry 24	EzEnt	ry 32
Pos	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)
С	53	2.087	53	2.087	32	1.260	62	2.441	62	2.441	62	2.441
D	24	0.945	31	1.220	31	1.220	34	1.339	41	1.614	41	1.614
Н	76	2.992	97	3.819	168	6.614	228	8.976	325	12.795	405	15.945
h ₁	40	1.575	40	1.575	100	3.937	160	6.299	120	4.724	160	6.299
1	53	2.087	53	2.087	130	5.118	193	7.598	123.5	4.862	109	4.291
w ₁	40	1.575	40	1.575	40	1.575	40	1.575	40	1.575	40	1.575
W	76	2.992	70	2.756	70	2.756	90	3.543	90	3.543	90	3.543

D

Max wall thickness (with nuts*): EzEntry 4 mini: 3 mm (0.118") EzEntry 16: 3.5 mm (0.138") EzEntry 4, 10, 24, 32: 8 mm (0.315")

*The fasteners in the kit: self-tapping screws, washers and nuts

D



Roxtec CF 24 frame

The Roxtec CF 24 is a bolted together frame made from aluminum. Compression is integrated in the frame. The frame is easily installed around existing cables. The product is supplied as ready-made kits which include all necessary components.

- Attachment by bolting
- Openable to simplify retrofit



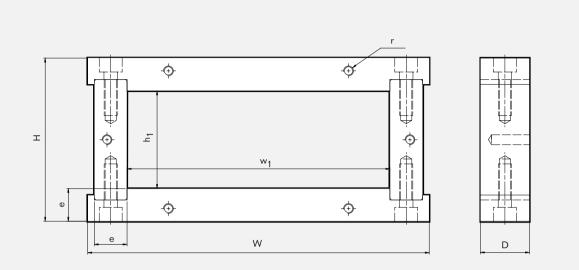
CF 24 kit, anodized aluminum



RATINGS IP:	RATINGS IP: 66/67 UL/NEMA: 4, 4X, 12, 13										
Kit	Number of cables/pipes	D	iameter range and n	Weight (kg) (lb)		Art. No					
		0+3.5-10.5 0+0.138-0.413 (CM 15w40)	0+3.5-16.5 0+0.138-0.650 (CM 20W40)	0+10.0-25.0 0+0.394-0.984 (CM 30w40)	0+9.5-32.5 0+0.374-1.280 (CM 40 10-32)						
CF 24/8	8			8 cables/pipes		1.5	3.307	CF00000240035			
CF 24/12	12		8 cables/pipes		4 cables/pipes	1.5	3.307	CF00000241235			
CF 24/28	28	12 cables/pipes	16 cables/pipes			1.5	3.307	CF00000242835			

Modules and frames can be ordered separately.

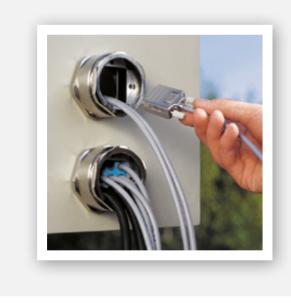
CF 24, technical information



Pos	(mm)	(in)
е	20	0.787
Н	100	3.397
h ₁	60	2.362
W	209	8.228
^w 1	160	6.299
r	M6	M6
D	30	1.181

Max wall thickness: 10 mm (0.394")

If the wall is thinner than 2 mm, a Roxtec CF 24 counter frame 2EPB001024012 is recommended (not supplied in the kit)



Roxtec RG M63 seal

The Roxtec RG M63 entry seal is a cable gland type of seal with adaptable sealing modules at the center. The product is supplied as ready-made kits which include all necessary components.

- Attachment by counter ring nut
- For one to nine cables/pipes
- Allows use of pre-terminated cables
- Recommended knockout punch: Greenlee hole punch (size 2.52"/ISO 63)



RG M63 kit, nickel-plated brass



RG M63/1



RG M63/4



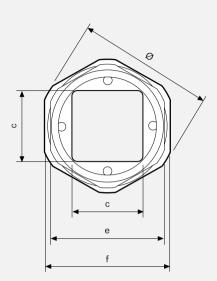
Also available in stainless steel

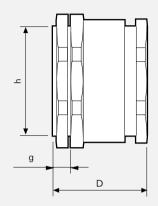


RATINGS IP: 67 UL/NEMA: 4, 4X,12,13									
Kit	Number of cables/pipes	Diameter rar	nge and number of	cables/pipes	Externa ØxD (mm)	l dimensions ØxD (in)	We (kg)	eight (lb)	Art. No
		0+3.5-10.5 mm 0+0.138-0.413 in (GM 13,3w40)	0+3.5-16.5 mm 0+0.138-0.650 in (GM 20w40)	0+9.5-32.5 mm 0+0.374-1.280 in (GM 40 10-32)			uig/		
RG M63/1	1			1 cable/pipe	74 x 51	2.913 x 2.008	0.5	1.213	RG00063010046
RG M63/4	4		4 cables/pipes		74 x 51	2.913 x 2.008	0.5	1.213	RG00063040046
RG M63/9	9	9 cables/pipes			74 x 51	2.913 x 2.008	0.5	1.213	RG00063090046

Modules and seals can be ordered separately.

RG M63 kit, technical information





Pos	(mm)	(in)
С	40	1.575
е	SW 64	SW 2.520
f	SW 68	SW 2.677
g	10	0.394
h	M63x1.5	M63x1.5
D	51	2.008
Ø	74	2.913

Max wall thickness: 4 mm (0.157")



Roxtec C RS T seal

The Roxtec C RS T entry seal is a small-sized solution for cabinets and equipment. The product is supplied as ready-made kits which include all necessary components.

- Attachment by counter ring nut
- For one cable or pipe
- Allows use of pre-terminated cables



C RS T kit, nickel-plated brass and acid-proof stainless steel fittings



C RS T 25



C RS T 31

C RS T 43

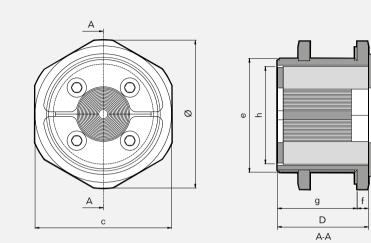


C RS T 50



RATINGS IP: 66/67, 69K UL /NEMA: 4, 4X, 12, 13									
	Aperture dim. +1/-0 mm (+0.0394"/-0")		For cable/pipe		External dimensions sleeve		Weight sleeve		
Kit	Ø (mm)	Ø (in)	Ø (mm)	Ø (in)	ØxD (mm)	ØxD (in)	(kg)	(lb)	Art. No
C RS T 25	32	1.260	0+3.6-12.0	0+0.142-0.472	39 x 20	1.535 x 0.787	0.1	0.220	CRST010025046
C RS T 31	40	1.575	0+4.0-17.0	0+0.157-0.669	50 x 20	1.969 x 0.787	0.2	0.331	CRST010031046
C RS T 43	50	1.969	0+4.0-23.0	0+0.157-0.906	65 x 40	2.559 x 1.575	0.4	0.882	CRST010043046
C RS T 50	63	2.480	0+8.0-30.0	0+0.315-1.181	78 x 40	3.071 x 1.575	0.7	1.433	CRST010050046

C RS T kit, technical information



	C R	S T 25	C RS T 31		C RS T 43		C RS T 50	
Pos	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(in)
с	36	1.417	46	1.811	60	2.362	70	2.756
е	M 32 x 1.5	M 32 x 1.5	M40x1.5	M40x1.5	M50x1.5	M50x1.5	M63x1.5	M63x1.5
f	4	0.157	5	0.197	5	0.197	6	0.236
g	16	0.630	15	0.591	35	1.378	34	1.339
h	25	0.984	31	1.220	43	1.693	50	1.969
D	20	0.787	20	0.787	40	1.575	40	1.575
Ø	39	1.535	50	1.969	65	2.559	78	3.071
Wall thickness	1-10	0.039-0.394	1-8	0.039-0.315	1-28	0.039-1.102	1-26	0.039-1.024



Roxtec CF 8/ CF 32 frames

The Roxtec CF 8 and CF 32 entry seals are made from cast aluminum. The compression unit is integrated in the frame. The product is supplied as ready-made kits which include all necessary components.

Attachment by bolting



CF 8/CF 32 kits, integrated compression unit, aluminum





CF 8/8

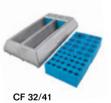


CF 8/9





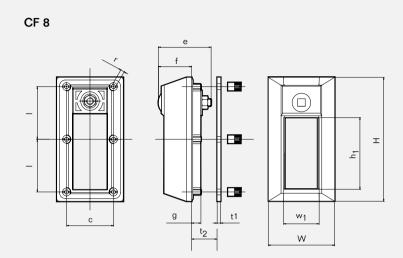




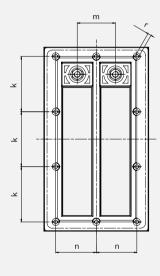
RATINGS	IP: 66/67 L	JL/NEMA: 4, 4X, 1	2, 13						
	Diar	meter range and n	Externa	l dimensions	Weight				
Kit					HxW (mm) HxW (in) (kg) (lb) Art. No			Art. No	
	0+3.5-10.5 0+0.138-0.413 (CM 15W40)	0+3.5-16.5 0+0.138-0.650 (CM 20w40)	0+10.0-25.0 0+0.394-0.984 (CM 30w40)	0+9.5-32.5 0+0.374-1.280 (CM 40 10-32)					
CF 8/5		4 cables/pipes		1 cable/pipe	140 x 75	5.512 x 2.952	0.7	1.543	CKT800000005
CF 8/8		8 cables/pipes			140 x 75	5.512 x 2.952	0.7	1.543	CKT800000008
CF 8/9	6 cables/pipes	2 cables/pipes	1 cable/pipe		140 x 75	5.512 x 2.952	0.7	1.543	CKT000000000
CF 32/20		16 cables/pipes		4 cables/pipes	230 x 130	9.055 x 5.118	2.0	4.409	CKT3200000020
CF 32/32		32 cables/pipes			230 x 130	9.055 x 5.118	2.0	4.409	CKT3200000032
CF 32/41	24 cables/pipes	16 cables/pipes		1 cable/pipe	230 x 130	9.055 x 5.118	2.0	4.409	CKT320000041

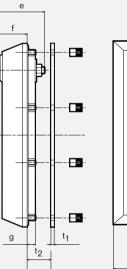
Modules and frames can be ordered separately.

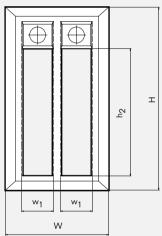
CF 8/CF 32 frames, technical information



CF 32







Pos	(mm)	(in)	Pos	(mm)	(in)	Pos	(mm)	(in)
с	53	2.087	k	70	2.756		Wall thickness	Max 0.157
е	59	2.323	m	48	1.890	t2	Max 4	IVIAX 0.157
f	38	1.496	n	51	2.008	h ₁	80	3.150
g	12	0.472	r	SW 4	SW 0.157	h ₂	160	6.299
1	60	2.362	t ₁	4	0.157	w ₁	40	1.575



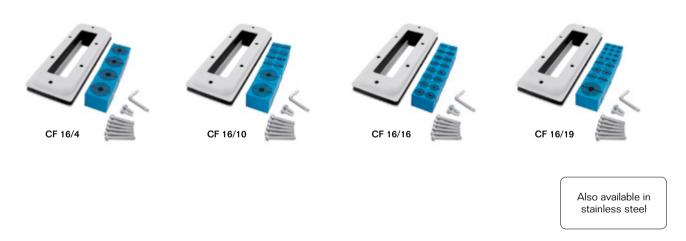
Roxtec CF 16 frame

The Roxtec CF 16 is a low-profile metal frame. Compression is integrated in the frame. Adapter plates are available for standardized openings in cabinets. The product is supplied as ready-made kits which include all necessary components.

- Attachment by bolting
- Available in openable version for easy retrofit and installation around existing cables and pipes



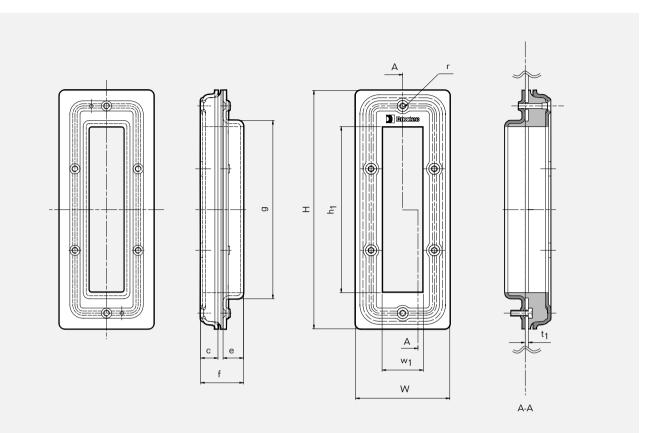
CF 16 kit, powder coated mild steel



RATINGS		IP : 66/67	UL/NEMA:	4, 4X, 12, 13					
Kit	Number of cables/pipes	Diameter ran	ge and number of	f cables/pipes	Externa HxW (mm)	I dimensions HxW (in)	W (kg)	eight (lb)	Art. No
		0+3.5-10.5 0+0.138-0.413 (CM 15W40)	0+3.5-16.5 0+0.138-0.650 (CM 20w40)	0+9.5-32.5 0+0.374-1.280 (CM 40 10-32)					
CF 16/4	4			4 cables/pipes	234 x 93	9.213 x 3.661	1.7	3.748	CKT0008020004
CF 16/10	10		8 cables/pipes	2 cables/pipes	234 x 93	9.213 x 3.661	1.7	3.748	CKT0008020010
CF 16/16	16		16 cables/pipes		234 x 93	9.213 x 3.661	1.7	3.748	CKT0008020016
CF 16/19	19	12 cables/pipes	6 cables/pipes	1 cable/pipe	234 x 93	9.213 x 3.661	1.7	3.748	CKT0008020119

Modules and frames can be ordered separately.





Pos	(mm)	(in)
С	17	0.669
е	20	0.787
f	42	1.654
g	175	6.890
h ₁	160	6.299
w ₁	40	1.575
t ₁ Wall thickness	Max 4	Max 0.157
r	SW TX25	SW TX 25



Roxtec HD 32

The Roxtec HD 32 (High Density) is a corrosion resistant cable entry seal for sealing and terminating up to 32 cables in one single cut-out in junction and terminal boxes. The seal is designed to withstand the harshest of environments and it is approved for use in hazardous and industrial applications as a direct replacement to cable glands. The product is supplied as ready-made kits which include all necessary components.

- 316L stainless steel material
- Extremely area efficient
- Adapts to cables of different sizes



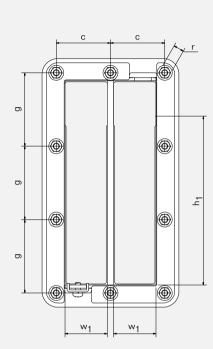
HD 32 kit, integrated compression unit, acid-proof stainless steel

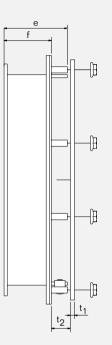


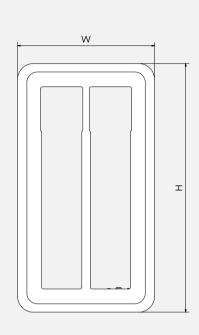
RATINGS	IP : 66/67	UL /NEM	1A: 4, 4X, 12, 13						
Kit	Number of cables/pipes	Diameter ran	ge and number of	cables/pipes	External di HxW (mm)	mensions HxW (in)	We (kg)	ight (lb)	Art. No
		0+9.5-31.5 mm 0+0.37-1.24" (HD 40)	0+3.5-15.5 mm 0+0.0.14-0.61" (HD 20w40)	0+3.5-9.5 mm 0+0.0.14-0.37" (HD 15w40)					
HD 32/8	8	8 cables/pipes			236 x 130	9.3 x 5.1	3	6.8	112276
HD 32/20	20	4 cables/pipes	16 cables/pipes		236 x 130	9.3 x 5.1	3	6.8	112278
HD 32/32	32		32 cables/pipes		236 x 130	9.3 x 5.1	3	6.8	112279
HD 32/41	41	1 cable/pipe	16 cables/pipes	24 cables/pipes	236 x 130	9.3 x 5.1	3	6.8	112280

Modules and frames can be ordered separately. Available in Ex version.









Pos	(mm)	(in)
с	51.5	2.02
е	60	1.36
f	45	1.77
g	69.7	2.75
h ₁	160	6.3
w ₁	40	1.57
t ₁	4	0.15
t ₂ Wall thickness	Max 4	Max 0.157
r	SW10	0.4



Roxtec C KFO frame

The Roxtec C KFO is a light-weight composite frame in size 6x1. The frame is openable for easy installation around existing cables. The product is supplied as ready-made kits which include all necessary components.

- Attachment by bolting
- Available with or without flange
- Available with stainless steel fasteners upon request

C KFO frame, PA 6.6, 30% GF - flange, PP



C KFO 6x1



C KFO 6x1 with flange



C KFO Counter frame



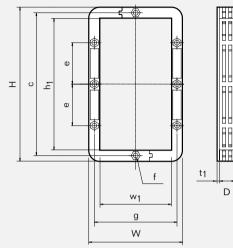
RATINGS IP: 55								
Frame	For No. openings	Packing space (mm)	External HxW (mm)	dimensions HxW (in)	We (kg)	eight (lb)	Art. No	
C KFO 6x1	1	180 x 120	260 x 159	10.236 x 6.260	0.6	1.323	CKF0000060059	
C KFO 6x1 with flange	1	180 x 120	420 x 319	16.535 x 12.559	1.2	2.646	CKF1000060059	
C KFO Counter frame*	1	180 x 120	262 x 161	10.315 x 6.338	0.4	0.882	KFC0000100011	

* The C KFO Counter frame is recommended if the wall is 1.5 mm (0.059") or thinner.

Modules and frames can be ordered separately.

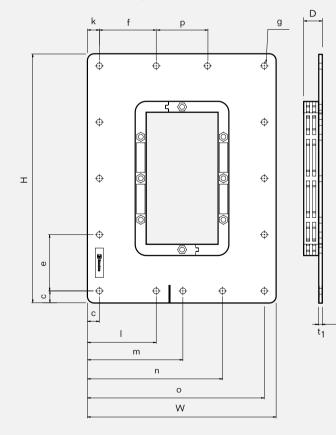
C KFO frame, technical information

C KFO 6x1



Pos	(mm)	(in)
С	241	9.488
е	70	2.756
f	Ø 8.2 (8x)	Ø 0.323 (8x)
g	140	5.512
h ₁	222	8.740
w1	120	4.724
t1	gasket 2	0.079
D	26	1.024

C KFO 6x1 with flange



Pos	(mm)	(in)
с	20	0.787
е	95 (4x)	3.740 (4 _x)
f	96 (2x)	3.780 (2x)
g	Ø 10 (23x)	Ø 0.394 (23x)
I.	116	4.567
m	161	6.339
n	228	8.976
0	299	11.772
t ₁	8	0.315
р	87	3.425
D	34	1.339

Max wall thickness: 6 mm (0.236")

Roxtec CM modules



CM 15w40*

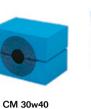


CM 20



CM 20w40*

CM 30





CM 40



CM 40 10-32

* Whenever possible we recommend choosing twin or triplet modules like CM20w40 or CM15w40. Benefits are higher area efficiency per frame opening, quicker installation and improved cost-effectiveness.

	Number of	For cable/p	oipe diameter	External dim. (mm) Weight (max)			
Module	cables/pipes	Ø _a -Ø _b (mm)	Ø _a -Ø _b (in)	HxW (D=30 mm)	(kg)	(lb)	Art. No
CM 15w40*	3	0+ 3.5-10.5	0+ 0.138-0.413	15 x 40	0.03	0.055	C000115401000
CM 20	1	0+ 4.0-14.5	0+ 0.157-0.571	20 x 20	0.02	0.044	C000100201000
CM 20w40*	2	0+ 3.5-16.5	0+ 0.138-0.650	20 x 40	0.04	0.077	C000120401000
CM 30	1	0+ 10.0-25.0	0+ 0.394-0.984	30 x 30	0.04	0.088	C000100301000
CM 30w40	1	0+ 10.0-25.0	0+ 0.394-0.984	30 x 40	0.06	0.121	C000130401000
CM 40	1	0+ 21.5-34.5	0+ 0.846-1.358	40 x 40	0.07	0.135	5CM000008983
CM 40 10-32	1	0+ 9.5-32.5	0+ 0.374-1.280	40 x 40	0.07	0.135	C000140101000

C Wedge kit/parts, galvanized



The wedge kit includes one Roxtec Wedge 120, five stayplates, one lubricant and installation instructions.

	External d	imensions	We	ight	
Wedge	W (mm)	W (in)	(kg)	(lb)	Art. No
C Wedge kit galv	120	4.724	0.65	1.443	AWK2001201018



Roxtec KFO frame

The Roxtec KFO is a light-weight composite frame in size 6x1. The frame is openable for easy installation around existing cables and pipes. Upon request, the product can be supplied as ready-made kits including all necessary components.

- Attachment by bolting
- Available with or without flange
- Available with stainless steel fasteners upon request to meet requirements in aggressive corrosive environments

KFO frame, PA 6.6, 30% GF - flange, PP



KFO 6x1

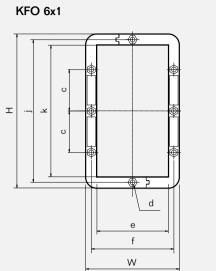


KFO 6x1 with flange



RATINGS	IP: 66/6	IP: 66/67								
	For No.	Packing space	External o	limensions	We	eight				
Frame	openings	(mm)	HxW (mm)	HxW (in)	(kg)	(lb)	Art. No			
KFO 6x1	1	180 x 120	260 x 159	10.236 x 6.260	1.0	2.094	KFO0000060059			
KFO 6x1 with flange	1	180 x 120	420 x 319	16.535 x 12.559	1.6	3.417	KFO1000060059			

KFO frame, technical information

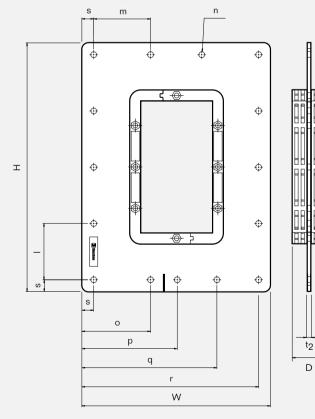


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Pos		(mm)	(in)
С		70	2.756
d	Ş	Ø 8.2 (8x)	Ø 0.323 (8x)
е		120	4.724
f		140	5.512
g		26	1.024
j		241	9.488
k		222	8.740
t ₁	Wall thickness	5-8	0.197-0.315
D		57-60	2.244-2.362

KFO 6x1 with flange



Pos	(mm)	(in)
I	95 (4x)	3.740 (4x)
m	96 (3x)	3.780 (3x)
n	Ø 10 (23x)	Ø 0.394 (23x)
0	116	4.567
р	160	6.299
q	220	8.661
r	299	11.772
s	20	0.787
t ₂	8	0.315
D	60	2.362



Roxtec GHM frame

The Roxtec GHM frame is a flanged metal frame designed for installation through bolting. The frame is sealed onto the structure by use of TSL sealing strip and used with adaptable sealing modules. Upon request, the product can be supplied as ready-made kits including all necessary components.

- Attachment by bolting
- Drilled according to standardized hole pattern



GHM frame, acid-proof stainless steel



GHM 6x1 AISI 316



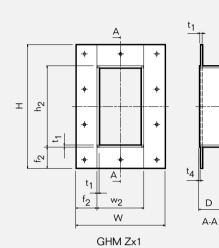
Also available in galvanized mild steel. For shielded EMC applications a conductive gasket is required.

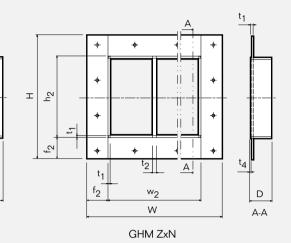
For information about other frame combinations, please contact your local Roxtec supplier or e-mail: info@roxtec.com

RATINGS IP: 66/67 UL/NEMA: 4, 4X, 12, 13							
Frame	Frame openings	Packing space (mm)	External dime HxW (mm)	ensions (D=60mm) HxW (in)	Wa (kg)	eight (lb)	Art. No
GHM 2x1 AISI316 INCL TSL 15x6	1	60 x 120	233 x 253	9.173 x 9.961	3.4	7.562	5GHM000003379
GHM 2x2 AISI316 INCL TSL 15x6	2	60 x 120	233 x 383	9.173 x 15.079	5.4	11.905	151674
GHM 2x3 AISI316 INCL TSL 15x6	3	60 x 120	233 x 514	9.173 x 20.236	7.4	16.218	109390
GHM 4x1 AISI316 INCL TSL 15x6	1	120 x 120	292 x 253	11.496 x 9.961	4.1	9.039	5GHM000003380
GHM 4x2 AISI316 INCL TSL 15x6	2	120 x 120	292 x 383	11.496 x 15.079	6.3	13.977	110624
GHM 4x3 AISI316 INCL TSL 15x6	3	120 x 120	292 x 514	11.496 x 20.236	8.6	18.938	GHM400000032
GHM 6x1 AISI316 INCL TSL 15x6	1	180 x 120	350 x 253	13.780 x 13.961	4.8	10.516	150388
GHM 6x2 AISI316 INCL TSL 15x6	2	180 x 120	350 x 383	13.780 x 15.079	7.3	16.072	107786
GHM 6x3 AISI316 INCL TSL 15x6	3	180 x 120	350 x 514	13.780 x 20.236	9.8	21.627	110623

www.roxtec.com 49

GHM frames, technical information

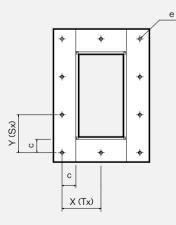




Pos	(mm)	(in)
h ₂	H - 120	H - 4.724
w ₂	W - 120	W - 4.724
D	60	2.362
f ₂	60	2.362
t ₁	6	0.263
t2	10	0.394
t ₃	12	0.394
t ₄	3	0.118
е	10	0.394
С	35	1.378

Z = Frame size N = Number of horizontal openings

Hole pattern



	(xT) X				Y (Sx)	
	X (mm)	X (in)	Т	Y (mm)	Y (in)	S
GHM 2x1	101.3	3.988	2	91.5	3.602	2
GHM 2x2	111	4.370	3	91.5	3.602	2
GHM 2x3	92.7	3.650	5	91.5	3.602	2
GHM 4x1	101.3	3.988	2	80.5	3.169	3
GHM 4x2	111	4.370	3	80.5	3.169	3
GHM 4x3	92.7	3.650	5	80.5	3.169	3
GHM 6x1	101.3	3.988	2	75	2.953	4
GHM 6x2	111	4.370	3	75	2.953	4
GHM 6x3	92.7	3.650	5	75	2.953	4

Roxtec RM modules



RM 15



RM 20

RM 20w40*

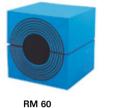




RM 40



RM 40 10-32





RM 60 24-54



* Whenever possible we recommend choosing twin or triplet modules like RM20w40 or RM15w40. Benefits are higher area efficiency per frame opening, quicker installation and improved cost-effectiveness.

	Number of	For cable/pipe diameter		External dim. (mm)	Weigh	t (max)		
Module	cables/pipes	Øa-Øb (mm)	Øa-Øb (in)	HxW (D=60 mm)	(kg)	(lb)	Art. No	
RM 15	1	0+ 3.0-11.0	0+ 0.118-0.433	15x15	0.02	0.044	RM00100151000	
RM 15w40*	3	0+ 3.5-10.5	0+ 0.138-0.413	15x40	0.05	0.110	RM00115401000	
RM 20	1	0+ 4.0-14.5	0+ 0.157-0.571	20x20	0.04	0.088	RM00100201000	
RM 20w40*	2	0+ 3.5-16.5	0+ 0.138-0.650	20x40	0.07	0.154	RM00120401000	
RM 30	1	0+ 10.0-25.0	0+ 0.394-0.984	30x30	0.08	0.176	RM00100301000	
RM 40	1	0+ 21.5-34.5	0+ 0.846-1.358	40x40	0.14	0.309	RM00100401000	
RM 40 10-32	1	0+ 9.5-32.5	0+ 0.374-1.280	40x40	0.14	0.309	RM00140101000	
RM 60	1	0+ 28.0-54.0	0+ 1.102-2.126	60×60	0.33	0.728	RM00100601000	
RM 60 24-54	1	0+ 24.0-54.0	0+ 0.945-2.126	60x60	0.33	0.728	RM00160201000	
RM 80	1	0+ 48.0-71.0	0+ 1.890-2.795	80x80	0.59	1.301	5RM0000003350	

Wedge kits, galvanized/acid-proof stainless steel



The wedge kit includes one Roxtec Wedge 120, five stayplates, one wedge clip, one lubricant and installation instructions.

	External dimensions		We	eight			
Wedge	W (mm)	W (in)	(kg)	(lb)	Art. No		
GALVANIZED							
Wedge kit galv	(wedge) 120	(wedge) 4.724	1.5	3.307	AWK0001201018		
ACID PROOF STAINLESS STEEL							
Wedge kit AISI 316	(wedge) 120	(wedge) 4.724	1.5	3.307	AWK0001201021		

Installation/disassembly tools



Pre-compression tool, small



Pre-compression tool, large



Pre-compression eccentric tool, small



Pre-compression eccentric tool, large



Pre-compression eccentric tool, compact



Handgrip pre-compression tool



Pre-compression wedge 60/40



Pre-compression wedge 120



RG M63 tool 3/8 grip



Stayplate clamps horizontal inst



Stayplate clip



RG M63 tools



Module Adaption Indicator

Tool	For use with	Art. No
Pre-compression tool, small	KFO, GHM	5ICT000001269
Pre-compression tool, large	KFO, GHM	ICT0001000000
Pre-compression eccentric tool, small	KFO, GHM	ICT0001000302
Pre-compression eccentric tool, large	KFO, GHM	ICT0001000301
Pre-compression eccentric tool, compact	ComSeal LW, ComSeal, EzEntry, CF 8/32, CF 16, HD 32, C KFO	ICT0001000316
Handgrip pre-compression tool	KFO, GHM	ICT0001000401
Pre-compression wedge 60/40	ComSeal LW, ComSeal, EzEntry, CF 8/32, CF 16, HD 32	5ICT000003691
Pre-compression wedge 120	KFO, GHM	ICT0001000500
Stayplate clamps horizontal inst, 2 pcs	KFO, GHM	ICT0001000100
Stayplate clip	KFO, GHM	ICT0001000200
RG M63 tools	RG M63	5IRG000001545
RG M63 tool 3/8 grip	RG M63	ICT2010000001
Module Adaption Indicator	Measuring tool for easier selection of sealing module	IQR2009000101

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(b) Installation shall be carried out in accordance with Roxtec installation instructions in effect from time to time

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