





MC 2x8-67

MC 2x8-67 Multigate is suitable for leading through both low and medium power current cables as well as various types of tubing. It fits directly to a C-standard aperture (or FL 21).

MC 2x8-67 Multigate is plastic reinforced new type of cable gland plate made of various types of polymers. It meets the respective IP enclosure classes as it does not need separate gaskets or glands which make it very easy to use, providing innumerable advantages in a single assembly unit.

MC 2x8-67 Multigate is suitable for both outdoor and indoor use.

MC 2x8-67 Multigate is inspected and sertified by: SGS CSTC the Chines authority in charge of electrical equipment safety standards.

Multigate will lead through and seal cables as follows:

8 - 67 mm

2 pcs

Total of 2 cables

Code	Colour	Electrical number	Delivery time	Service temperature *)	Special
100074	Black	1732349	From Stock	-40 - +100	Material UL 94 V-0 approved

SCG 2x3-35



SCG splitting cable gland is suitable for leading through both low and medium power current cables as well as various types of tubing.

SCG splitting cable gland is plastic reinforced new type of cable gland plate made of various types of polymers. It meets the respective IP enclosure classes as it does not need separate gaskets or glands which makes it very easy to use, providing innumerable advantages in a single assembly unit.

SCG splitting cable gland is suitable for both outdoor and indoor use.

SCG splitting cable gland is inspected and sertified by:

SGS CSTC the Chines authority in charge of electrical equipment safety standards

SCG will lead through and seal cables as follows:

3 - 35 mm

2 pcs

Total of 2 cable

Code	Colour	Electrical number	Delivery time	Service temperature *)	Special
105929	Black			-40 - +100	Material UL 94 V-0 approved

SCG 1x3-35

SCG splitting cable gland is suitable for leading through both low and medium power current cables as well as various types of tubing.

SCG splitting cable gland is plastic reinforced new type of cable gland plate made of various types of polymers. It meets the respective IP enclosure classes as it does not need separate gaskets or glands which makes it very easy to use, providing innumerable advantages in a single assembly unit.

SCG splitting cable gland is suitable for both outdoor and indoor use.

SCG splitting cable gland is inspected and sertified by: SGS CSTC the Chines authority in charge of electrical equipment safety standards.

Multigate will lead through and seal cables as follows:

3 - 35 mm

1 pcs

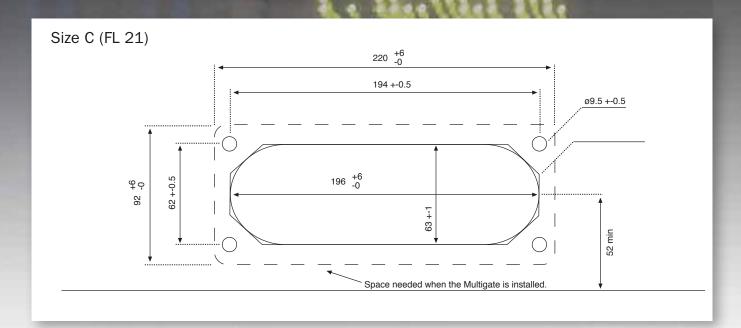
Total of 1 cables

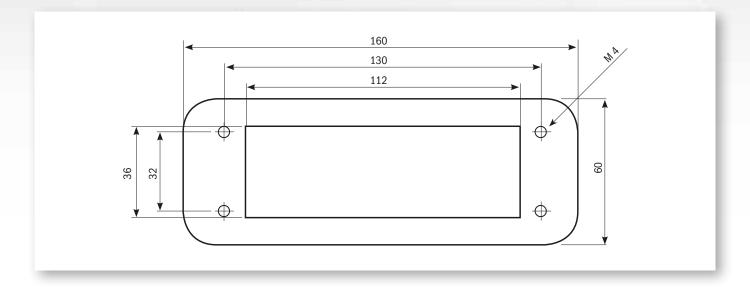
Code	Colour	Electrical number	Delivery time	Service temperature *)	Special
105928	Black			-40 - +100	Material UL 94 V-0 approved

IP codes

Fir	First numeral			(Second numeral			
Prot of s	Protection against ingress of solid foreign objects		Meaning protec- tion of persons against access	Protection against harmful ingress of water		ul ingress	Meaning for protection from ingress of	
IP	Requirements	Example	to hazardous parts with:		P	Requirements	Example	water:
0	No protection	4	No protection provided		0	No protection	4	No protection provided
1	Full penetration of 50.0 mm diameter sphere not allowed and shall have adequate clearance from hazardous parts. Contact with hazardous parts not permitted	4	Back of hand	<u>-</u>	1	Protected against vertically falling drops of water	4	Vertically dripping
2	Full penetration of 12.5 mm diameter sphere not allowed. The jointed test finger shall have adequate clearance from hazardous parts	4 -	Finger	2	2	Protected against vertically falling drops of water with enclosure tilted 15° from the vertical.	4	Enclosure tilted 15º from the vertical
3	The access probe of 2.5 mm diameter shall not penetrate	4	Tool	3	3	Protected against sprays to 60° from the vertical	4	Limited spraying
4	The access probe of 1.0 mm diameter shall not penetrate	4	Wire	4	4	Protected against water splashed from all directions	4	Splashing from all directions
5	Limited ingress of dust permitted (no harmful deposit, refer to standard)		Wire	Ę.	5	Protected against lowpressure jets of waterfrom all directions		Hosing jets from all directions
6	Totally protected against ingress of dust	4	Wire	(6	Protected against strong jets of water	□•• 4 •	Strong hosing jets from all directions
				-	7	Protected against the effects of immersion between 15.0 cm and 1.0 m	15 cm 1	Temporary immersion
				8	8	Protected against longer periods of immersion under pressure	4	Immersion

Fixing details



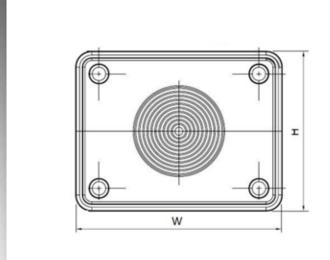


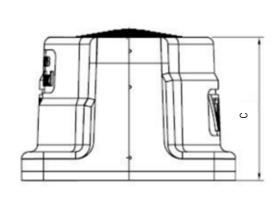
Bolt and nut

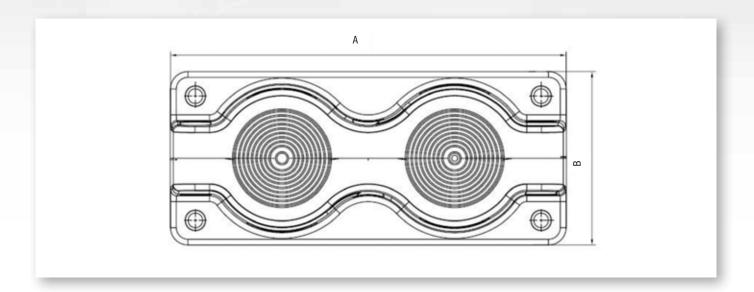
Always for outdoor and EMC applications or with large cable sizes, recommended torque 2Nm



Dimensions







Product name	Item	Width (A)	Length (B)	Height (C)
SCG 1 x 3 - 35 Splitting Grommet	105928	77	60	40
SCG 2 x 3 - 35 Splitting Grommet	105929	136	60	40
Multigate MC 2 x 8 - 67 Splitting Grommet	100074	222	92	219
STM 24/10 Splitting Twinseal Multigate	106157	160	60	26

Shield Lines

Trelleborg have developed in long co-operations with customers a line of materials Shield line especially suitable for the electrical, electric-, and telecom industries with excellent shielding performance in demanding environments. The material selection and development have been done in order to meet customer and application requirements for long term performance of gasket, lead trough's, grommet's, gaskets and various solutions of shielding electro technical equipment from external stress, weather, dust, UV-light, humidity or mechanical effect.

All Shield line materials fulfills REACH and RoHS latest requirements and are constantly monitored to fulfill any regulations that is requested by authorities.

Below is listed some key performance and properties of material groups within shield line material selection with typical application examples.

The right material solution is recommended to each customer application and optimized to meet the technical and other requirements.

ShieldLine

Thermoplastic Elastomer

S

Excellent resistance to weathering, ozone and UV exposure provides good chemical resistance, and electrical properties

Typically used for high volume items with request of high precision, low tolerances high quality combined with low-price of end product, especially suitable for fully automated production. Shield line T materials are fully recyclable and easy to customize by color and hardness in a range from 25° to 70° ShA . Major applications are cable seals, gaskets or cable lead troughs that are assembled outside in harsh environments and have to stand for some long terms mechanical stress such as stressing the shielding grommet or membrane.

Grades with limited resistance for oils, flame retardant grades UL 94 V-0, halogen free, FDA approved and EMC-shielding grades are available.

ShieldLine

Thermoplastic Urethane

Shield line U have basically the same properties as Shield line T but with excellent abrasive and mechanical properties.

Typically used where the items have to stand for abrasive stress combined with environmental conditions. Full recyclability and customized coloring is possible, hardness range is slightly limited by the materials physical properties but is still fairly wide 50° to 90° ShA Grades with limited resistance for oils, FDA grades are available.

ShieldLine

Thermoplastic Vulcanizate

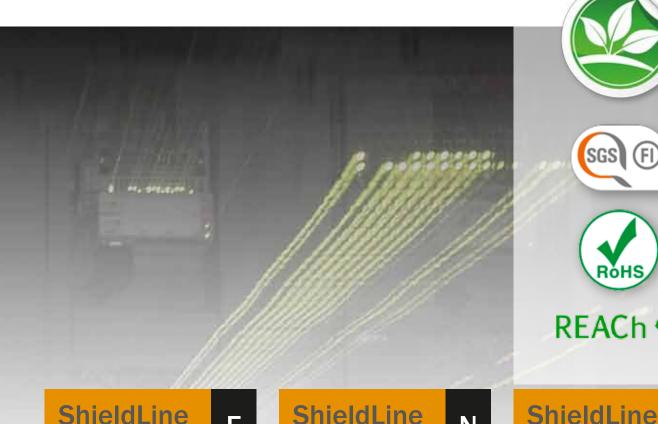
V

Shield line V have similar properties as Shield line T the special performance is in color stability in UV-light, the color does not change even in years of direct sunlight and in various temperatures. Also the chemical resistance properties are superior to other materials, oils petroleum, automotive fluids acids, solvents etc. have no or minor effect on Shield line V materials

Shield line V is very similar in feel and looks as traditional rubbers, but can be produced in high performance automated production lines, the hardness and temperature range is very wide, 15° ShA to 50° ShD and from -60°C to up to 150°C in short term exposure.

Typically used where the items have to stand for extreme environmental stress in elevated temperatures and harsh conditions, such as equipment parts for industrial use, automotive parts and visible parts with high visual standards on colors.

Special grades with FDA medical/ food contacts approval are available as well as flame retardant and other special grades.











ShieldLine

Ethylene Propylene Diene Monomer

Ε

Nitrile Butadiene Rubber

Silicone

Basic performance is as for any EPDM material, these Shield line E grades have superior resistance to weathering, ozone and UV exposure they provides excellent chemical resistance, and good electrical properties and also resists animal and vegetable oils, steam, water and oxygenated solvents.

Shield line E is typically used when the solution requires rubber to be used; this can come from a moderate size of production series or low cost at low volumes when visual issues are not important since black is the main color for the material, still with good sealing properties. Cable grommets and single gates are produced out of Shield line E

There are some grades with EMC attenuation of 40 dB - 60 dB

ShieldLine

Material mostly used for indoor or shielded applications due to limited weathering resistance, but excellent oil fuel and other chemical resistance. Gas permeability and water resistance are excellent as well as adhesion to metal and vibration damping performance.

Typical application would be a gasket, grommet, lead trough in automotive industry where oil or water sealing performance is important or gas tightness. Also vibration dampers are produced out of this materials due to wide hardness range that is available 20° to 95° ShA

exposure also provides excellent chemical resistance and good electrical properties while resistsing oil

splashes. Shield line Q is typically used in most demanding applications, with wide temperature range -50...+ 200°C, and high quality performance and visual requirements, Shield line Q natural color is transparent or white so customized coloring is easy to obtain, it's a very flexible material

Shield line Q offer excellent resist-

ance to weathering, ozone and UV

and with high range of hardness 25° - 90° ShA which makes it very usable in sealing, grommet, cable lead troughs and terminal covers or plugs.

Special EMC/RFI/EMI grades are available with an attenuation of up to 120 dB, various fillers can be used such as silver or nickel graphite to fulfill the conductivity requirement. UL94 V-0 flame retardant grades are available and halogen free versions.

ShieldLine

Chloroprene Rubber

Shield line C is used when rubber like performance is required with a wide temperature range -45... +120 °C and moderate fire protection or with chemical stability in the temperature range.



We seal, damp and protect in demanding industrial environments throughout the world.

Trelleborg is a global industrial group whose leading positions are based on advanced polymer technology and in-depth applications know-how.

Trelleborg Industrial Products Finland Oy is a part of Product Area Trelleborg Electrical Protection. We are the leading, flexible developer and manufacturer of elastomer-based innovative custom designed solutions that address the demanding pass-thru and sealing needs of the global telecom, electronics, power and HVAC industries. We serve the customers with fast, high quality product development and rapid prototyping. Our global presentence supports multinational co-operation with flexible manufacturing capabilities.

Trelleborg Industrial Products Finland Oy Kikkerläntie 72 Fl-38300 Sastamala **FINLAND**

Tel. +358 3 512 6000 Fax +358 3 512 6020

www.trelleborg.com/industrial-products

Trelleborg Moulded Components (Wuxi) Co., Ltd. No. 8. Zhong Tong Road New District, Wuxi, JiangSu, PRC 214143 CHINA Tel. +86 510 8530 8808

Fax +86 510 8530 9208

www.trelleborg.com/china Trelleborg

Trelleborg Industrial Products Sweden AB Stålgatan 2 SE-703 63 Örebro **SWFDFN** Tel. +46 19 164700 www.trelleborg.com

Industrial Products India Pvt Ltd 19/1 Kalena Agrahara, Bannerghata Main road Bangalore - 560076 INDIA Tel. +91 80 25189700

Fax +91 80 26431109