

TECHNICAL SPECIFICATION IP65/EMI-EMC Gaskets

Description

Market requirements permit us to offer different gaskets that cover the double function of watertight seals and electromagnetic interference shielding. An initial demand was for a gasket that was of a self-blocking type to be installed directly on plate moulding. Gaskets with codes A3208-E-SC, A3213-E-SC e A3213-L-E-SC, are those we offer for this type of application.

Applications

Utilized for electric and telecommunications, etc. locker shielding, where there is a watertight seal required as well.

Provision

In spools, in pieces cut to size or in thermally welded frames as per client plans, ready for installation.

Process specification

Manufacturing process according to:

- "IO_PRD1_41 CICLO produttivo Cod 30.0019 EMC IP65 SATMET Ed.1";
- "IO_PRD1_20 Vulcanizzazione profili in gomma Ed. 4;
- "IO_PRD1_31 Termosaldataura profili in gomma Ed. 3.

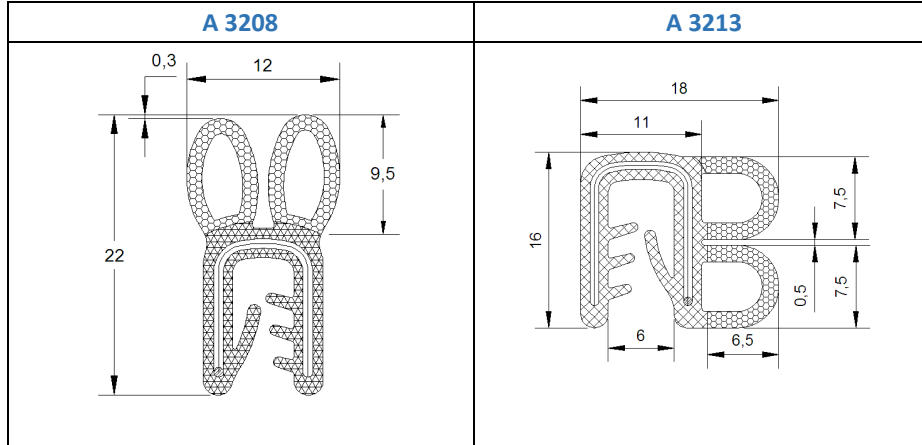
PART NUMBER FORMULATION

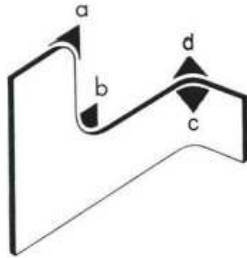
Example: A3213-L-E-SC

Properties

- **Periodicity of change:** it cannot be definitively defined; it depends on the environmental influences like heat, coldness, UV radiation and so on. It depends also on their intensity and frequency. It has to be replaced if the properties can no longer be warranted.
- **Storage duration:** The guidance for storage, maintenance and cleaning is defined in DIN 7716 ISO 5285. The properties and the stability of the properties depend also on the environmental influences.
- **Recommended compression:** The compression of sealing edge protection profile should have a maximum of 50% as otherwise the compactness, and the restoring force are affected. In practice, the profile should be compressed 30-40%.

1. Section Type



Minimum Bending Radius		
A 3208	A 3213	
a=60	a=60	
b=150	b=60	
c=60	c=100	
d=60	d=60	

Take note that the **minimum bending radii** given may be used only as guide lines since, depending on the material, at full or limited utilization of the clamping area indicated. Deviations may be experienced.

Tolerances of the product are defined according to "IO_PRD1_02 Parameters and Tolerances - Ed. 3".

2. Type of gasket selection

<p>IP65 sealing</p> <p>(A 3208)</p>  <p>40.0731: Article code for continuous profile</p>	<p>IP65 sealing + EMI shielding</p> <p>(A 3208-E-SC)</p>  <p>30.0019: Article code for continuous profile</p>	
<p>IP65 sealing</p> <p>(A 3213)</p>  <p>40.0732: Article cod for continuous profile</p>	<p>IP65 sealing + EMI shielding</p> <p>(A 3213-E-SC)</p>  <p>30.0058: Article cod for continuous profile</p>	<p>IP65 sealing + EMI shielding</p> <p>(A 3213-L-E-SC)</p>  <p>30.0061: Article cod for continuous profile</p>

3. Materials

Material	Support: soft EPDM Gasket: soft EPDM sponge rubber
Hardness	Support: 60 +/-5 SHORE A Gasket: density: 0.55 +/- 0.05 g/cm3
Colour	Black
Clamping range	1.0 – 3.0 mm
Metal carrier	wire carrier 32 x 0.76 mm
Operation temperature	to - 40 °C from + 100 °C
UV- stability:	Good
Resistance against:	Alcohols, ozone, weathering, lyes and low acids.
Non-resistant against	carbon hydrochlorides, concentrated acids, aromatics carbons, oil and fuels.
Factory tolerance	Support: DIN-ISO 3302-1 E3 Gasket: DIN-ISO 3302-1 E3 Length: DIN-ISO 3302-1 ,L3
Flammability Rating	Not applicable

4. Fabric Type

Fabric type	STATIC CLEAN
Code	SC
Base material	Polyester fabric
Test Report	RP6900
Coating	100% Nickel

	Magnetic field (dB)				Electric field (dB)			
Frequency (MHz)	3	10	20	30	2	10	20	30
1 layer	15	20	30	40	105	65	62	65

	Electric field and plane wave (dB)							Plane Wave (dB)					
Frequency (MHz)	200	400	500	600	700	800	900	1000	3000	5000	10000	15000	18000
1 layer	55	65	60	62	60	70	60	60	62	63	53	53	55

5. Type of supply

If the length is indicated it means that the gasket is supplied in pieces, if the length is not present it means that the gasket is supplied in linear meters.

Particular supply can also be requested: thermally welded frames, ready for installation (minimum development for o-rings gaskets 700-800 mm, minimum size for frame gasket 170 mm)

Example: A3213-L-E-SC **1006X881MM CORNICE TERMOSALDATA**
A3208-2 **765,3X835 MM CORNICE TERMOFUSA**