



Schlegel EMI EEH Series gaskets have been specially designed to provide environmental sealing as well as EMI shielding for outdoor cabinets. This new Schlegel EMI programme allows substantial cost savings for enclosure manufacturers on production lines in labour and supplies by replacing two different gaskets with just one. Schlegel EMI EEH series gaskets are designed to ease mounting through special reinforced clips which can accommodate a wide variety of metal thicknesses. Special shapes and materials excel in dynamic or high cycling applications such as front doors or access panels with low compression rates and very limited compression set. An EPDM core with an operating temperature up to 100 deg. C and good resistance to UV, water, acids, ... make the Schlegel EMI EEH gaskets the right choice for outdoor applications. Our proven conductive NiCu-C12 or C70 fabrics provide over 96dB of broadband noise attenuation that is crucial for mid to high range shielding applications. For tough environmental applications, we recommend half-wrapped parts, however full-wrapped profiles are also available for specific applications.

The Schlegel EMI EEH gaskets are a complementary programme to our CMP (Conductive Mask & Peel) product. The CMP tapes are designed to protect a cabinet surface during powder coating processes and provide a conductive and galvanically compatible mating surface for our EEH gasket products.





## EPDM sponge rubber core (Ethylene Propylene Diene Monomer)

Extruded over a galvanized wire core for use in flange mount. See recommended thicknesses on Standard Profile Selection Guide.

Operating Temperature: -40 C , +100 C

## Schlegel EMI Conductive Fabrics NiCu-C12 or NiCu-C70

### NiCu-C12 (Half-Wrapped, Full-Wrapped)

The highest efficiency for high-end applications

Surface resistivity: 0.0136 ohms/sq.

Abrasion resistance: 800,000 cycles (ASTM D3886)

### NiCu-C70 (Half-Wrapped, Full-Wrapped)

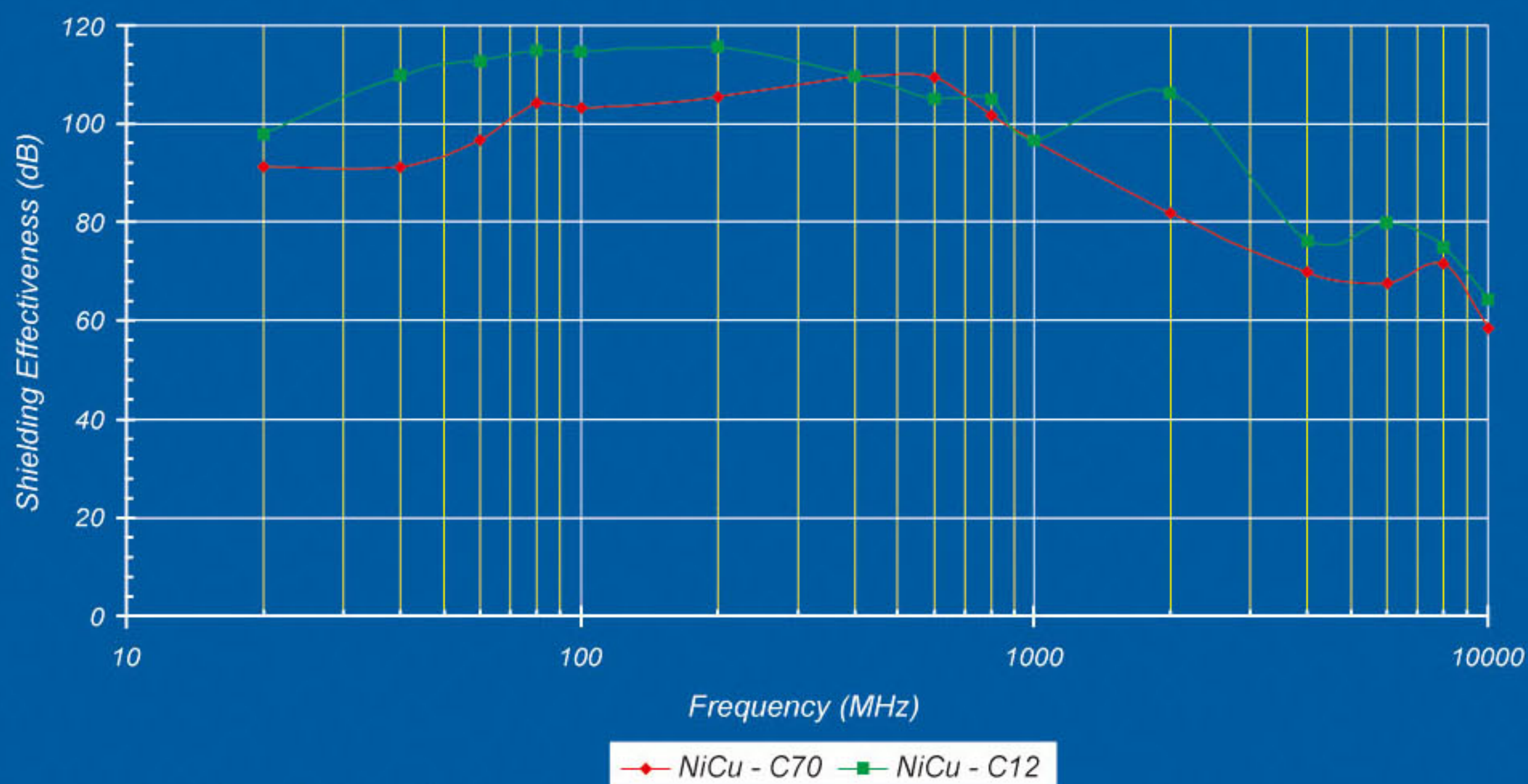
A cost effective solution for mid- to high-end applications

Surface resistivity: 0.066 ohms/sq.

Abrasion resistance: 800,000 cycles (ASTM D3886)

## Environmental Gasket

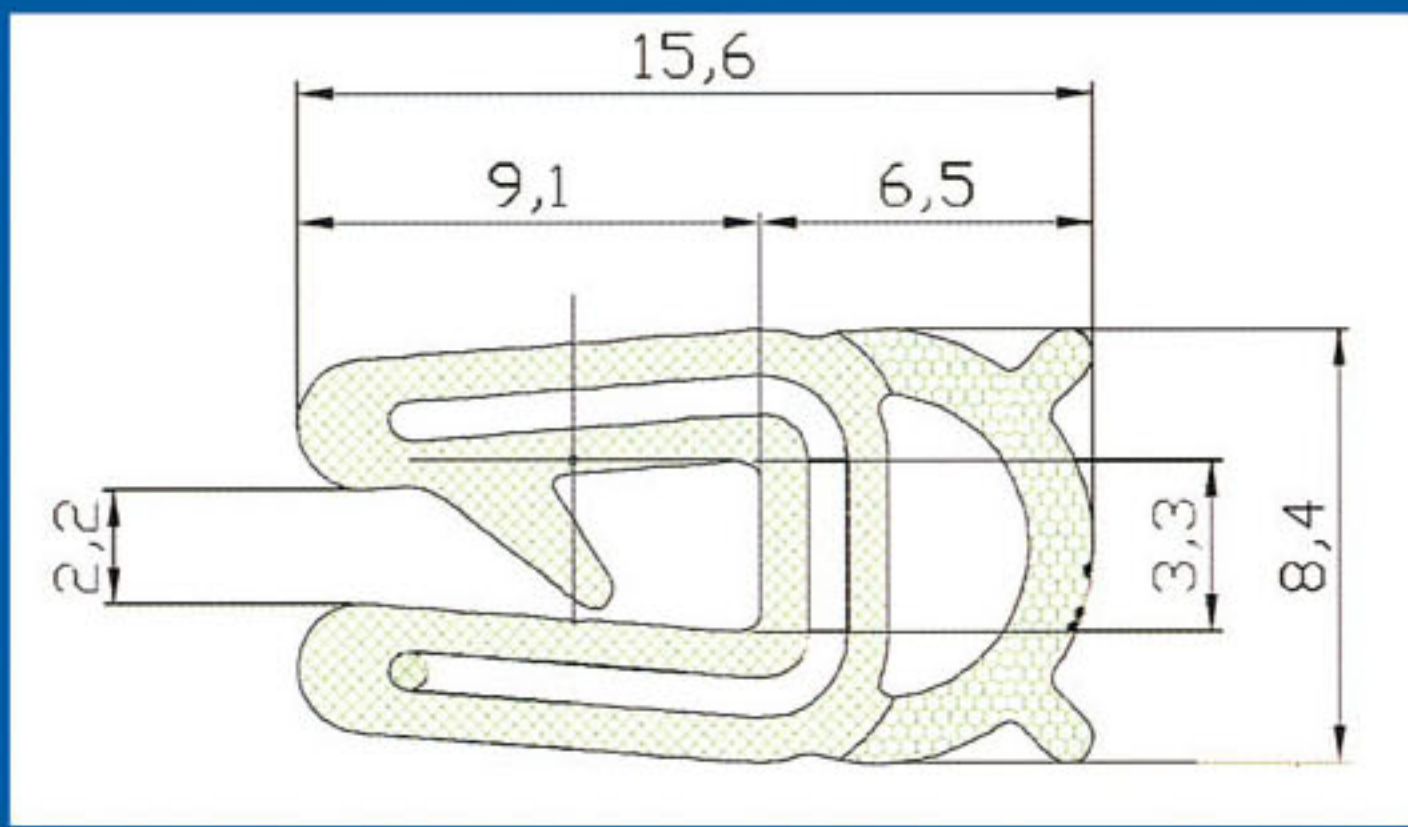
### Frequency versus Shielding Effectiveness





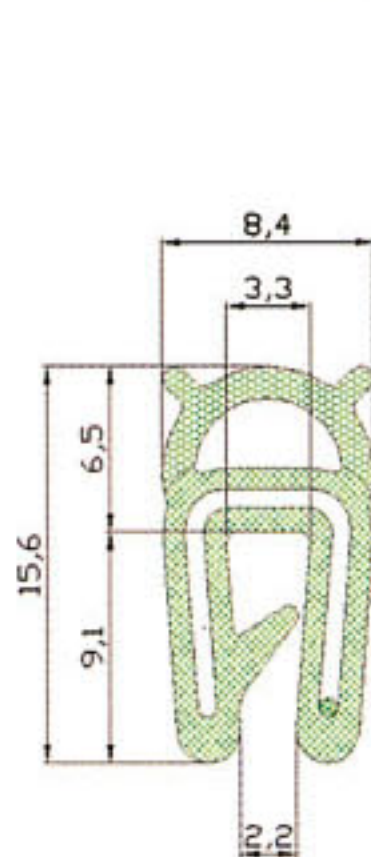
## Application

In this application, Schlegel EMI P/N EW20.0004, a NiCu-C70 clad half-wrapped profile, is mounted on a flange with the non-wrapped part exposed to the outside. The conductive part is therefore protected from the outside environment and is reinforced by the lip on top of the bulb shape. The flange has right angles in the corners, hence deformation of the gasket is still acceptable. One continuous length is mounted around the entire perimeter of the cabinet with unsealed joint to joint connection at the bottom. Flange thickness can vary from 1 to 3.3mm. This type of solution enhances the aesthetics of the cabinet. This cabinet has been rated IP55 - dust and water jet protected as per IEC 529. (Notice: the IP55 ratings apply to the complete cabinet / enclosure assembly, not the stand alone gasket seal).

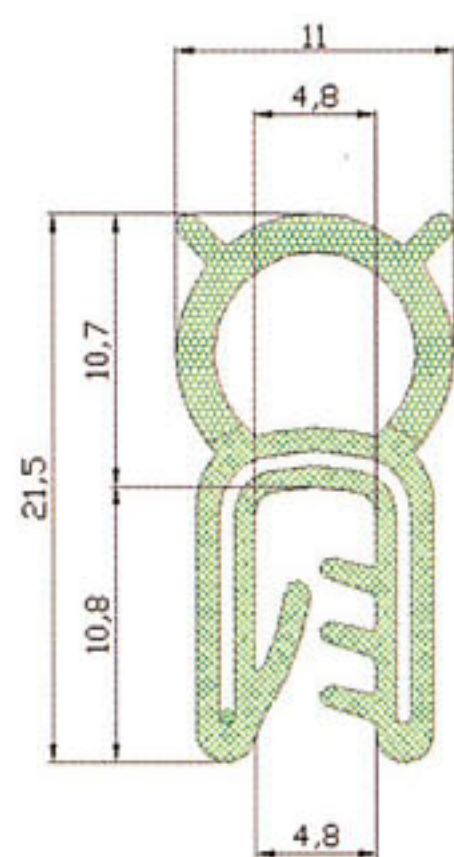




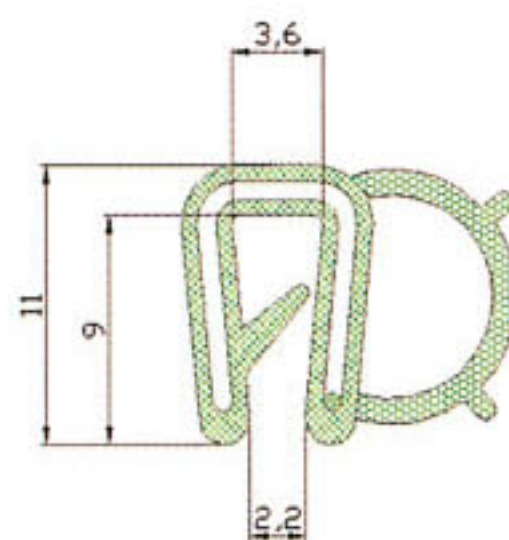
# Standard Profiles Selection Guide



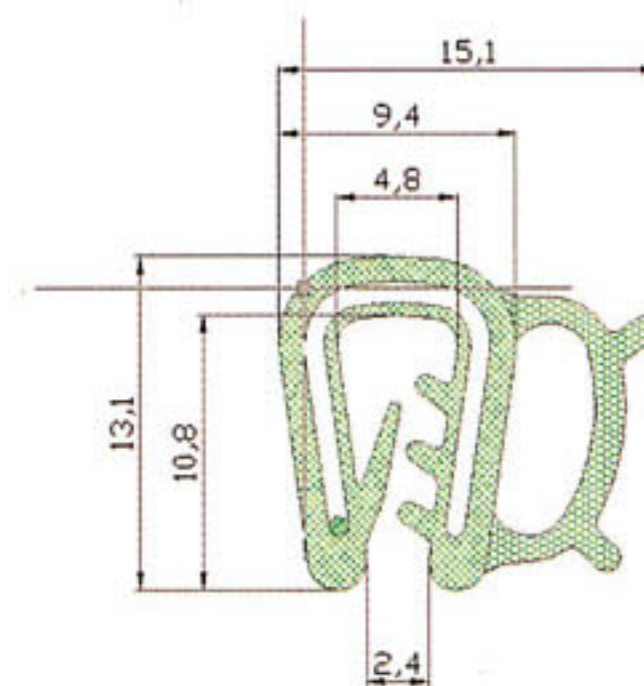
Type: A



Type: B



Type: C



Type: D

P/N	Dwg Type	HW: FW: N:	Half-wrapped Full-wrapped None	Fabric	Flange Thickness (mm)
EW10.00001	A		FW	NiCu - C12	1 - 3.3
EW10.00002	A		FW	NiCu - C70	1 - 3.3
EW10.00005	C		FW	NiCu - C12	1.5 - 3.6
EW10.00006	C		FW	NiCu - C70	1.5 - 3.6
EW10.00009	D		FW	NiCu - C12	1 - 4.8
EW10.00010	D		FW	NiCu - C70	1 - 4.8
EW10.00013	B		FW	NiCu - C12	1 - 4.8
EW10.00014	B		FW	NiCu - C70	1 - 4.8
EW20.00003	A		HW	NiCu - C12	1 - 3.3
EW20.00004	A		HW	NiCu - C70	1 - 3.3
EW20.00007	C		HW	NiCu - C12	1.5 - 3.6
EW20.00008	C		HW	NiCu - C70	1.5 - 3.6
EW20.00011	D		HW	NiCu - C12	1 - 4.8
EW20.00012	D		HW	NiCu - C70	1 - 4.8
EW20.00015	B		HW	NiCu - C12	1 - 4.8
EW20.00016	B		HW	NiCu - C70	1 - 4.8
EW20.00021	D		N	EPDM only	1 - 4.8
EW20.00022	B		N	EPDM only	1 - 4.8
EW20.00023	A		N	EPDM only	1 - 3.3
EW20.00024	C		N	EPDM only	1.5 - 3.6



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EMI Shielding Products



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