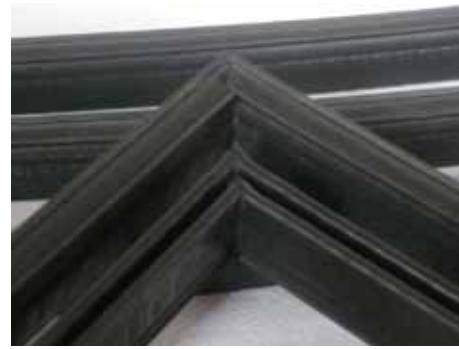


EEH serie can be supplied in frames with 90° angles and bonded with thermo plastic elastomer. This process preserves the environmental sealing properties of the gasket in the corners.



EW XX YZ F LLLLL/WWWWW (*)

XX: HW/FW

Y: Type of profile (A-B-C-D)

Z: 1: SnCu-C50/ 2: NiCu-C70/ 3: NiCu-C12/ 4: AgRs-C2/ 5: NiCu-C22

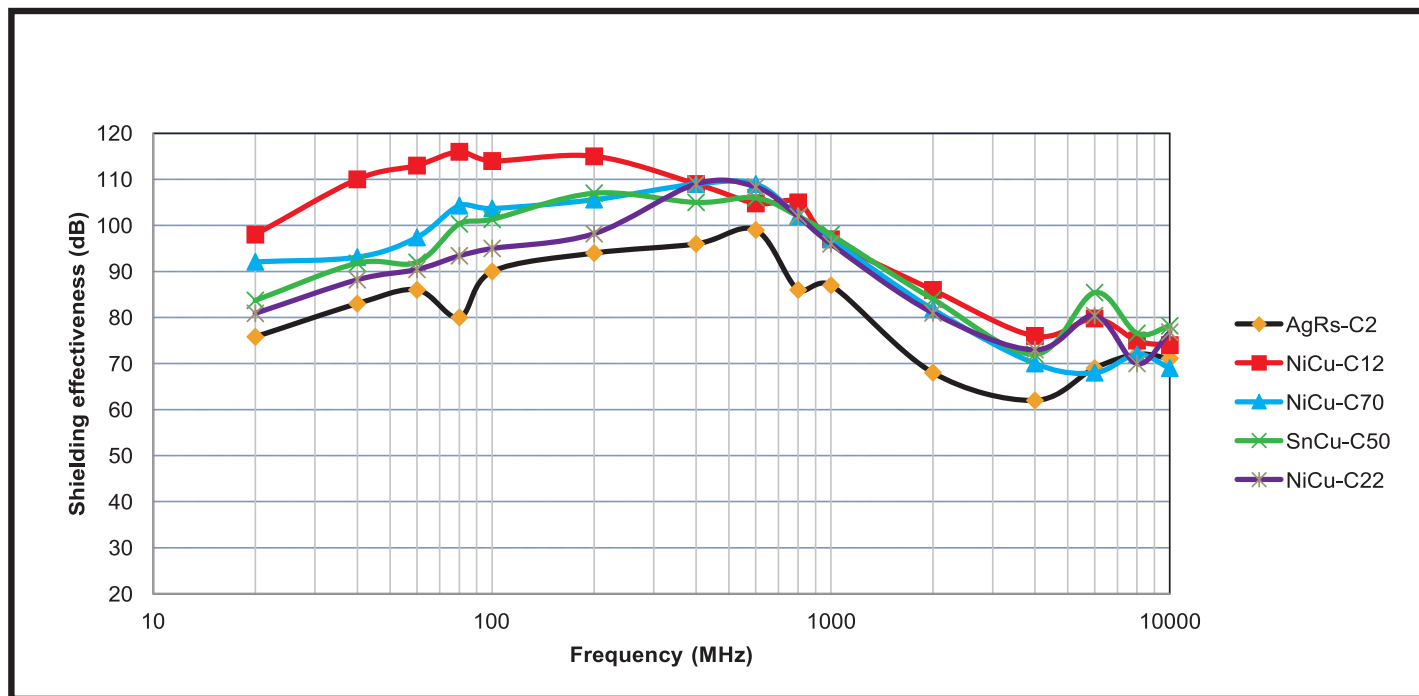
LLLLL **: Length in inches (LLL,LL")

WWWWW **: Width in inches (WWW,WW")

(*): Please consult Schlegel EMI representative to confirm availability of any combination
(**): External dimensions of the frame

Shielding Effectiveness of SEM conductive fabrics

Mil DTL 83528C



EEH Series

DEFINING EMI SOLUTIONS

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Environmental and EMI Hybrid EEH Series





Schlegel Electronic Materials EEH Series' gaskets have been specially designed to provide environmental sealing

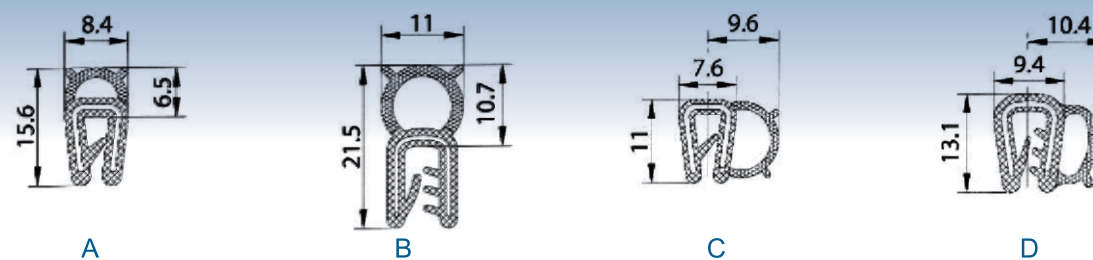
as well as EMI shielding for outdoor electronic cabinets. EEH

gaskets are Fabric over EPDM (Ethylene Propylene Diene Monomer) sponge rubber cores extruded over a galvanized wire core for flange mounting. This product provides cost savings to manufacturers assembly lines, as labor costs are substantially reduced as they are able to use one EEH gasket instead of two different gaskets.

EEH series' gaskets are designed to ease mounting through special reinforced clips which can accommodate a wide variety of metal thicknesses. The gasket can be picture framed to ensure continuously environmental sealing in the corners. EEH profiles 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 operating temperature range of EPDM starts from -40°C to 100°C, and the material has good resistance to UV, Water and acids etc.



Schlegel recommends half-wrapped EPDM for environmental and EMI protection using our corrosion resistant SnCu-C50 fabric. We also offer a full range of alternative combinations, please contact your local office for design help and advice.



Part Number	FW: Full Wrap HW: Half Wrap N: None	Fabric	Type	Flange Thickness
EW10.00019	FW	SnCu-C50	A	1-3.3
EW10.00020	FW	SnCu-C50	B	1-4.8
EW10.00021	FW	SnCu-C50	C	1.5-3.6
EW10.00022	FW	SnCu-C50	D	1-4.8
EW10.00001	FW	NiCu-C12	A	1-3.3
EW10.00013	FW	NiCu-C12	B	1-4.8
EW10.00005	FW	NiCu-C12	C	1.5-3.6
EW10.00009	FW	NiCu-C12	D	1-4.8
EW10.00002	FW	NiCu-C70	A	1-3.3
EW10.00014	FW	NiCu-C70	B	1-4.8
EW10.00006	FW	NiCu-C70	C	1.5-3.6
EW10.00010	FW	NiCu-C70	D	1-4.8
EW10.00015	FW	AgRs-C2	A	1-3.3
EW10.00016	FW	AgRs-C2	B	1-4.8
EW10.00017	FW	AgRs-C2	C	1.5-3.6
EW10.00018	FW	AgRs-C2	D	1-4.8
EW10.00023	FW	NiCu-C22	A	1-3.3
EW10.00024	FW	NiCu-C22	B	1-4.8
EW10.00025	FW	NiCu-C22	C	1.5-3.6
EW10.00026	FW	NiCu-C22	D	1-4.8
EW20.00026	HW	SnCu-C50	A	1-3.3
EW20.00027	HW	SnCu-C50	B	1-4.8
EW20.00028	HW	SnCu-C50	C	1.5-3.6
EW20.00029	HW	SnCu-C50	D	1-4.8
EW20.00003	HW	NiCu-C12	A	1-3.3
EW20.00015	HW	NiCu-C12	B	1-4.8
EW20.00007	HW	NiCu-C12	C	1.5-3.6
EW20.00011	HW	NiCu-C12	D	1-4.8
EW20.00004	HW	NiCu-C70	A	1-3.3
EW20.00016	HW	NiCu-C70	B	1-4.8
EW20.00008	HW	NiCu-C70	C	1.5-3.6
EW20.00012	HW	NiCu-C70	D	1-4.8
EW20.00018	HW	AgRs-C2	A	1-3.3
EW20.00019	HW	AgRs-C2	B	1-4.8
EW20.00020	HW	AgRs-C2	C	1.5-3.6
EW20.00021	HW	AgRs-C2	D	1-4.8
EW20.00022	HW	NiCu-C22	A	1-3.3
EW20.00023	HW	NiCu-C22	B	1-4.8
EW20.00024	HW	NiCu-C22	C	1.5-3.6
EW20.00025	HW	NiCu-C22	D	1-4.8
EW00.00001	N	EPDM ONLY	A	1-3.3
EW00.00002	N	EPDM ONLY	B	1-4.8
EW00.00003	N	EPDM ONLY	C	1.5-3.6
EW00.00004	N	EPDM ONLY	D	1-4.8

Material Properties

Material Properties	Testing Method / Standards	EPDM Rubber Sponge-PG61	EPDM Rubber Solid-PG281
Density	DIN 53479 / DIN 63505 (PG281)	0.60 g/m ³	1.26±0.02 g/cm ³
Hardness	DIN 53519-1,2, ISO 1183 (PG281)	-	60±5
Tensile Strength	ISO 37, DIN 53504	>1.5 N/mm ²	>8 N/mm ²
Elongation off	ISO 37, DIN 53504	>300%	>400%
Air Ageing- 72 hours/ 100°C	ISO 188:1998, ISO 188:2006	CHANGED VALUES	
Hardness Shore A - (Changed values)	DIN 53519-1,2, ISO 1183 (PG281)	-	±5
Tensile Strength (Changed values)	DIN ISO 34	3.1 N/mm ²	9.0 N/mm ²
Elongation off (Changed values)	DIN ISO 34	>100%	100%
Temperature Range (application)	-40°C To + 100°C		
Flash Point	250°C		
Clamping range	Flange thickness from 1.5mm to 4.8mm		
Sealing suitability	Level of IP according to design		
Length of supply	25 mts per roll		
Resistance to Chemical & Weather Conditions	Alcohol, ozone, mild acids, acetone & Alkali		

EMC Fabric Properties

	NiCu-C70	NiCu-C12	Ag-C2	SnCu-C50	NiCu-C22
Description	Nickel-Copper plated polyester	Nickel-Copper plated polyester	Silver plated nylon	Tin Copper plated nylon	Nickel-Copper plated polyester
Fabric type	PE Rip-stop	PE Plain Weave	PA 6 Rip-stop	PA 6 Plain Weave	PE Rip-stop
Top Coating-Basis	Acrylic	Acrylic	Urethane	Acrylic	Urethane
Surface resistivity	<= 0.066 Ω/sq.	<= 0.024 Ω/sq.	<= 0.5 Ω/sq.	<= 0.020 Ω/sq.	<= 0.08 Ω/sq.
Shielding Effectiveness	96 dB Mil DTL 83528C	97.4 dB Mil DTL 83528C	95 dB Mil DTL 83528C	95.3 dB Mil DTL 83528C	95.76 dB Mil DTL 83528C
Contact Resistance (@1 kg load)	0.11Ω-inch SEM LP 3001	0.08 Ω-inch SEM LP 3001	< 1.00 Ω-inch SEM LP 3001	0.09 Ω-inch SEM LP 3001	0.2 Ω-inch SEM LP 3001
Abrasion resistance (cycles)	800,000 ASTM D3886	1,000,000 ASTM D3886	800,000 ASTM D3886	1,000 ASTM D3884	1,000 ASTM D3884
Core	All types	All types	All types	All types	All types
Compliances	2011/65/EU (RoHS 2.0)	2011/65/EU (RoHS 2.0)	2011/65/EU (RoHS 2.0)	2011/65/EU (RoHS 2.0)	2011/65/EU (RoHS 2.0)
Galvanic compatibility (Ni, Tin, Al, Zn)	SAE ARP 1481 class B	SAE ARP 1481 class B	SAE ARP 1481 class B	SAE ARP 1481 class B	SAE ARP 1481 class B