

WIRE ORIENTED IN SILICONE



WIRE ORIENTED IN SILICONE | 1600 RANGE

EMI

DESCRIPTION:

Gasketing material produced from the combination of specification grade silicone and wire; used in sheet and strip form. The silicone elastomer acts as an environmental seal; while the wires provide excellent conductivity to establish EMI/RFI integrity. Available in both solid and sponge silicone, and with aluminium or monel wires. Custom compositions are available on request.

APPLICATION:

While primarily suggested for use in gasket applications requiring high levels of attenuation along with a moisture seal; because of its economics, it is also recommended for commercial shielding. Order with or without PSA (pressure sensitive adhesive), in sheet, strip or custom form as you require.

SPECIFICATIONS:

Listed are the most commonly used substrates. Other combinations may be available upon request.

AVAILABILITY:

Each of the above are available in a variety of cross sections, and die cut configurations. In order to determine the full part number for the material you desire, use the following system. As previously shown, the first three digits of our part number determine the elastomer and wire used in the composite. The next four digits will determine the cross sectional make-up of the material to be supplied. The first (of the four) determine whether the part is "custom" or "standard". If you require a "custom" part not shown in the following pages, this digit will be a "1", and the rest of the part number will be assigned by Arka Technologies. If the part you require is standard, this digit will be "0".

AVAILABLE CROSS-SECTIONS

Part No.	Cross-Section
16XX-0XXX	Standard
16XX-1XXX	Custom
16XX-2XXX	Standard with PSA
16XX-00XX	Sheet Stock
16XX-01XX	Strip Stock (3 ft)
16XX-02XX	Combo Strip Stock
16XX-03XX	Ring Gaskets
16XX-04XX	Connector Gaskets
16XX-05XX	Strip Stock (18ft)

SPECIFICATIONS

Part No.	Description	Specification
16XX-	Wire Oriented in Silicone	-
161X-	Solid Silicone Elastomer	ZZ-R-765 2b 40
162X-	Sponge Silicone	AMS 3195
163X-	Fluorosilicone	Mil-R-25988 Gr50
164X-	Silicone	WSI-9206 TYPE 1
16X1-	Monel Wire	QQ-N-281 ,.0045 dia
16X2-	Aluminium Wire	Alloy 5056 ,.005 dia
16X3-	SnPhBronze	ASTM B105 ,.0045 dia
16X4-	Monel Wire Mesh	QQ-N-281 ,.0045 dia
16X5-	Aluminium Wire Mesh	Alloy 5056 ,.005 dia
16X6-	Tin Plated Copper	QQW-343

Performance Characteristics Rectangular Gasketing

Part No. Designator	Solid Silicone / Fluorosilicone Elastomers						Silicone Sponge Elastomer		
	1611	1612	1613	1631	1632	1633	1621	1622	1623
Shielding dB 200 KHz	70	70	70	70	70	85	70	70	70
100 MHz	125	100	130	125	100	130	120	85	130
1.0 GHz	125	100	125	125	100	125	125	70	125
Fuel/Solvent resistant	NO	NO	NO	YES	YES	YES	NO	NO	NO
Closing Force (psi)	25-100	25-100	25-100	25-100	25-100	25-100	5-50	5-50	5-50
Compression Set	25%	25%	25%	25%	25%	25%	25%	25%	25%
Temperature range (C)	-65/200	-65/200	-65/200	-55/200	-55/200	-55/200	-65/200	-65/200	-65/200
EMP Survivability Colour	GREY	GREY	GREY	BLUE	BLUE	BLUE	GREY	GREY	GREY
Wire Count / sq. in.	900	900	900	900	900	900	650	650	650

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WIRE MESH OVER ELASTOMER | 1600 RANGE

EMI

TOLERANCES

Dimension	Description	Specification
0.032" - 0.055"	Wire Orientated in Silicone	-
0.062" - 0.250"	Solid Silicone Elastomer	ZZ-R-765 2b 40
0.251" - 0.750"	Sponge Silicone	AMS 3195
	Fluorosilicone	Mil-R-25988 Gr50
	Silicone	WSI-9206 TYPE 1
	Monel Wire	QQ-N-281 ,.0045 dia
	Aluminium Wire	Alloy 5056 ,.005 dia
	SnPhBronze	ASTM B105 ,.0045 dia
	Monel Wire Mesh	QQ-N-281 ,.0045 dia
	Aluminium Wire Mesh	Alloy 5056 ,.005 dia
	Tin Plated Copper	QQW-343

STANDARD STRIP/ SHEET STOCK 3FT. LENGTHS

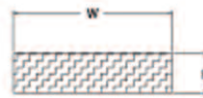


Figure 6.1 - Standard Strip 16XX-01XX

PORTIONED STRIP/ SHEET STOCK

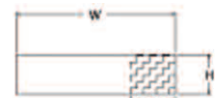


Figure 6.2 - Portioned Strip 16XX-02XX

STRIP LENGTH AVAILABILITY

Thickness (mm)	Width (mm)	Maximum Length (mm)
0.81	1.57 - 229	915
1.57 - 25.4	1.57 - 6.35	5486
3.18 - 25.4	6.35 - 9.52	3352.8

SHEET STOCK

Part No.	Thickness (mm)	Width (mm)
0005	0.81	76.2
0006	0.81	114.3
0007	0.81	152.4
0008	0.81	228.6
0009	1.14	76.2
0010	1.14	114.3
0011	1.14	152.4
0012	1.14	228.6
0013	1.4	76.2
0014	1.4	114.3
0015	1.4	152.4
0016	1.4	228.6
0017	1.57	76.2
0018	1.57	114.3
0019	1.57	152.4
0020	1.57	228.6
0021	2.36	76.2
0022	2.36	114.3
0023	2.36	152.4
0024	2.36	228.6
0025	3.18	76.2
0026	3.18	114.3
0027	3.18	152.4
0028	3.18	228.6
0029	3.96	76.2
0030	3.96	114.3
0031	3.96	152.4
0032	3.96	228.6
0033	4.78	76.2
0034	4.78	114.3
0035	4.78	152.4
0036	4.78	228.6
0037	6.35	76.2
0038	6.35	114.3
0039	6.35	152.4
0040	6.35	228.6
0041	7.92	76.2
0042	7.92	114.3
0043	7.92	152.4
0044	7.92	228.6
0045	9.53	76.2
0046	9.53	114.3
0047	9.53	152.4
0048	9.53	228.6