



Knitted Wire Mesh

Effective in applications where grounding is required but an environmental seal is not

Product Overview

Uvox Knitted Wire mesh (KWM) shielding utilises a range of metal wire, which is knitted and oriented into a redefined cross-section. This method yields an economical and reliable gasket suitable for a wide range of shielding applications. Typical cross-sections are round, rectangular, round-with-tail, and 'dumbbell'. These gaskets provide excellent shielding against EM and RF Interference.



Applications

Wire mesh gaskets are used where high shielding effectiveness is required and an environmental seal is not needed. Typical applications are panel gaskets, cable wrapping, door gaskets, and grounding buttons. If environmental sealing is required as well, then please refer to **Uvox Wire Mesh Combination (WMC)** gaskets.

Properties

Wire Mesh Properties

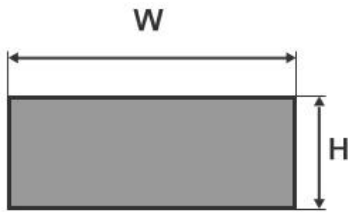
Part No	Wire Description	Specification
1	Monel Wire	QQ-N-281, 0.114 dia
2	SnCuFe	ASTM B520/ ASTM B33, 0.114 dia
3	Aluminium	AMS 4182, 0.127 dia
4	Stainless Steel	Alloy 304, 0.152 dia

Performance Characteristics

Property	Monel	SnCuFe	Aluminium	Stainless
Shielding, 100 kHz (dB)	45	50	40	65
Shielding, 10 MHz (dB)	115	115	100	120
Shielding, 500 MHz (dB)	110	110	90	110
Shielding, 1 GHz(dB)	95	95	80	95
Closure Force (min. PSI)	10	10	10	10

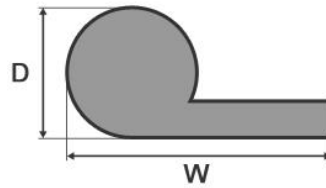
Configurations

Rectangular



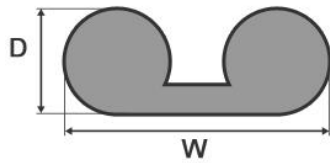
Part Number	W	H
1001	1.57	3.18
1002	1.57	4.75
1003	1.57	6.35
1004	1.57	7.92
1005	1.57	9.53
1006	1.57	12.7
1007	1.57	15.88
1008	1.57	19.05
1009	1.57	25.4
1010	2.36	2.36
1011	2.36	3.18
1012	2.36	4.75
1013	2.36	6.35
1014	2.36	7.92
1015	2.36	9.53
1016	2.36	12.7
1017	2.36	15.88
1018	3.18	1.57
1019	3.18	3.18
1020	3.18	3.96
1021	3.18	4.75
1022	3.18	6.35
1023	3.18	7.92
1024	3.18	9.53
1025	3.18	12.7
1026	3.18	15.88
1027	3.18	19.05
1028	3.18	25.4
1029	4.75	4.75
1030	4.75	6.35
1031	4.75	7.92
1032	4.75	9.53
1033	4.75	12.7
1034	4.75	15.88
1035	4.75	19.05
1036	4.75	25.4
1037	6.35	6.35
1038	6.35	7.92
1039	6.35	9.53
1040	6.35	12.7
1041	6.35	15.88

Round With Tail



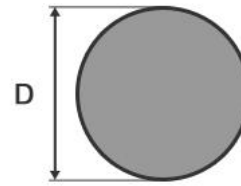
Part Number	D	W
2001	1.57	9.53
2002	1.57	12.7
2003	1.57	15.88
2004	1.57	19.05
2005	2.36	9.53
2006	2.36	12.7
2007	2.36	19.05
2008	3.18	9.53
2009	3.18	11.1
2010	3.18	12.7
2011	3.18	14.27
2012	3.18	15.88
2013	3.18	19.05
2014	3.96	12.7
2015	3.96	15.88
2016	3.96	19.05
2017	4.75	11.1
2018	4.75	12.7
2019	4.75	15.88
2020	4.75	19.05
2021	4.75	22.23
2022	6.35	12.7
2023	6.35	15.88
2024	6.35	19.05
2025	6.35	22.23
2026	6.35	25.4
2027	7.92	15.88
2028	7.92	19.05
2029	7.92	22.23
2030	9.53	15.88
2031	9.53	19.05
2032	9.53	22.23
2033	9.53	25.4
2034	11.1	19.05
2035	11.1	22.23
2036	11.1	25.4
2037	12.7	19.05
2038	12.7	22.23
2039	12.7	25.4

Dumbbell



Part Number	D (bulb)	W (overall)
3001	1.57	9.53
3002	1.57	12.7
3003	1.57	15.88
3004	1.57	17.15
3005	1.57	19.05
3006	1.57	22.23
3007	2.36	12.7
3008	3.18	12.7
3009	3.18	15.88
3010	3.18	17.15
3011	3.18	19.05
3012	3.18	22.23
3013	3.18	25.4
3014	4.75	15.88
3015	4.75	19.05
3016	4.75	22.23
3017	4.75	25.4
3018	6.35	19.05
3019	6.35	22.23
3020	6.35	25.4
3021	6.35	31.75
3022	9.53	25.4
3023	9.53	31.75

Round



Part Number	D (bulb)
4001	1.57
4002	2.36
4003	3.18
4004	3.96
4005	4.75
4006	6.35
4007	7.92
4008	9.53
4009	11.1
4010	12.7

Mesh Wrap



Part Number	W
5001	15.00
5002	20.00
5003	25.00
5004	30.00
5005	40.00
5006	50.00

All dimensions are in mm.

Product Selection

KWM - 1 - 2004

Wire Mesh
Material

Profile
Code

Above Example: Knitted Monel Mesh, Round-With-Tail with diameter 1.57 mm and tail length 19.05 mm.

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