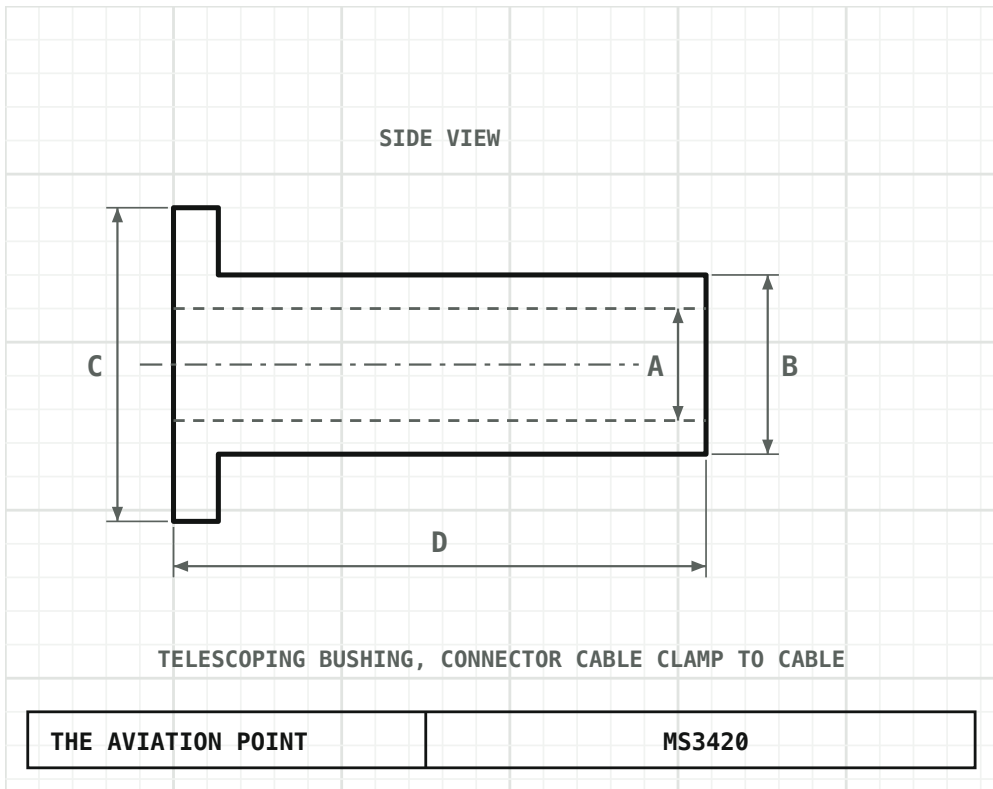
THE AVIATION POINT · THEAVIATIONPOINT.COM · THE AVIATION POINT · THEAVIATIONPOINT.COM · THE AVIATION POINT · THEAVIATIONPOINT.COM · THE AVIATION POINT · THEAVIATIONPOINT.COM · THE AVIATION POINT · THEAVIATIONPOINT.COM · THE AVIATION POINT · THEAVIATIONPOINT.COM · THE AVIATION POINT

MS3420 — telescoping bushing, connector cable clamp to cable

MS3420: telescoping bushings that adapt a connector cable clamp to the cable.



Engineering drawing · dimensions in inches

Specification

Item	Value
Type	Telescoping bushing, cable clamp to cable
Material	Flanged bushings: rubber per MIL-STD-417. Plain bushings by material code: A rubber per MIL-STD-417 (black), D silicone rubber per ZZ-R-765 class 3a or 3b (red), L fluorosilicone rubber per ZZ-R-765 class 2a or 2b, grade 50 (blue).
Status	Cancelled by Notice 4 (December 2009) and replaced by SAE-AS85049/139; inactive for new design before that. Check the current issue before design use.

Dimensions by size

Dimension, in	-3	-4	-6	-8	-10	-12	-16	-20	-24	-28	-32	-40
A — A dia (inside)	.130	.220	.312	.437	.562	.625	.750	.937	1.250	1.375	1.624	1.874
B — B dia (outside)	.210	.302	.427	.552	.615	.740	.927	1.240	1.365	1.614	1.864	2.364
C — C dia (flange)	.379	.505	.619	.744	.889	1.084	1.314	1.598	1.847	2.085	2.335	2.835
D — D (length)	2.875	2.750	2.625	2.500	2.375	2.250	2.125	2.000	1.875	1.750	1.625	1.500
E, F and G radius	.031	.031	.031	.062	.062	.062	.062	.062	.062	.062	.062	.062
Supersedes AN3420 dash no. (ref.)	-3	-4	-6	-8	-10	-12	-16	-20	-24	-28	-32	-40
Supersedes MS39056 dash no. (ref.)	-1	-2	-3	-4	-5	-6	-7	-8	-9	-10	-11	-12

Flanged bushings (sheet 1), dimensions in inches; letters as on the standard's drawing. Plain bushings follow below.

Part numbers

.130 1 part number

Part no.	Form	Material code
MS3420-3	Flanged (sheet 1)	—

.220 1 part number

Part no.	Form	Material code
MS3420-4	Flanged (sheet 1)	—

.312 4 part numbers

Part no.	Form	Material code
MS3420-6	Flanged (sheet 1)	—
MS3420-6A	Plain (sheet 2)	A
MS3420-6D	Plain (sheet 2)	D
MS3420-6L	Plain (sheet 2)	L

.437 1 part number

Part no.	Form	Material code
MS3420-8	Flanged (sheet 1)	—

.562 1 part number

Part no.	Form	Material code
MS3420-10	Flanged (sheet 1)	—

.625 1 part number

Part no.	Form	Material code
MS3420-12	Flanged (sheet 1)	—

.750 4 part numbers

Part no.	Form	Material code
MS3420-16	Flanged (sheet 1)	—
MS3420-16A	Plain (sheet 2)	A
MS3420-16D	Plain (sheet 2)	D
MS3420-16L	Plain (sheet 2)	L

.937 1 part number

Part no.	Form	Material code
MS3420-20	Flanged (sheet 1)	—

1.250 4 part numbers

Part no.	Form	Material code
MS3420-24	Flanged (sheet 1)	—
MS3420-28A	Plain (sheet 2)	A
MS3420-28D	Plain (sheet 2)	D
MS3420-28L	Plain (sheet 2)	L

1.375 1 part number

Part no.	Form	Material code
MS3420-28	Flanged (sheet 1)	—

1.624 1 part number

Part no.	Form	Material code
MS3420-32	Flanged (sheet 1)	—

1.874 1 part number

Part no.	Form	Material code
MS3420-40	Flanged (sheet 1)	—

.125 3 part numbers

Part no.	Form	Material code
MS3420-3A	Plain (sheet 2)	A
MS3420-3D	Plain (sheet 2)	D
MS3420-3L	Plain (sheet 2)	L

.219 3 part numbers

Part no.	Form	Material code
MS3420-4A	Plain (sheet 2)	A
MS3420-4D	Plain (sheet 2)	D
MS3420-4L	Plain (sheet 2)	L

.438 6 part numbers

Part no.	Form	Material code
MS3420-8A	Plain (sheet 2)	A
MS3420-8D	Plain (sheet 2)	D
MS3420-8L	Plain (sheet 2)	L
MS3420-10A	Plain (sheet 2)	A
MS3420-10D	Plain (sheet 2)	D
MS3420-10L	Plain (sheet 2)	L

.541 3 part numbers

Part no.	Form	Material code
MS3420-12A	Plain (sheet 2)	A
MS3420-12D	Plain (sheet 2)	D
MS3420-12L	Plain (sheet 2)	L

Reference data. The aircraft manufacturer's documentation (SRM / IPC) takes precedence.

THE AVIATION POINT · THEAVIATIONPOINT.COM

.938 6 part numbers

Part no.	Form	Material code
MS3420-18A	Plain (sheet 2)	A
MS3420-18D	Plain (sheet 2)	D
MS3420-18L	Plain (sheet 2)	L
MS3420-20A	Plain (sheet 2)	A
MS3420-20D	Plain (sheet 2)	D
MS3420-20L	Plain (sheet 2)	L

1.125 3 part numbers

Part no.	Form	Material code
MS3420-24A	Plain (sheet 2)	A
MS3420-24D	Plain (sheet 2)	D
MS3420-24L	Plain (sheet 2)	L

1.625 3 part numbers

Part no.	Form	Material code
MS3420-32A	Plain (sheet 2)	A
MS3420-32D	Plain (sheet 2)	D
MS3420-32L	Plain (sheet 2)	L

1.875 3 part numbers

Part no.	Form	Material code
MS3420-40A	Plain (sheet 2)	A
MS3420-40D	Plain (sheet 2)	D
MS3420-40L	Plain (sheet 2)	L

How to read the part number

Part	Meaning
Format	MS3420-<dash><material>
A	Material: Rubber, MIL-STD-417 (black)
D	Material: Silicone rubber, ZZ-R-765 class 3a or 3b (red)
L	Material: Fluorosilicone rubber, ZZ-R-765 class 2a or 2b, grade 50 (blue)
Example	MS3420-20L — Plain bushing, dash 20, fluorosilicone rubber

Plain bushings (sheet 2): dimensions

Dash	A dia	B dia	Length	Supersedes AN3420 (ref.)	Supersedes MS39057 (ref.)
-3	.125	.210	2.000 ±.031	-3A	-1
-4	.219	.302	2.000 ±.031	-4A	None
-6	.312	.427	2.000 ±.031	-6A	-3
-8	.438	.531	2.000 ±.031	-8A	-4
-10	.438	.615	2.000 ±.031	-10A	-5
-12	.541	.740	2.000 ±.031	-12A	-6
-16	.750	.927	2.000 ±.031	-16A	-7
-18	.938	1.115	2.000 ±.031	-18A	-8
-20	.938	1.240	2.000 ±.031	-20A	-9
-24	1.125	1.365	2.000 ±.031	-24A	-10
-28	1.250	1.614	2.000 ±.031	-28A	-11
-32	1.625	1.865	2.000 ±.031	-32A	-12
-40	1.875	2.365	2.000 ±.031	-40A	-13

Tolerances ±.016 unless otherwise specified. Dash -4: the MS39057 number is left blank, not legible on the scan of the standard.

Notes

- Dimensions in inches. Flanged bushings: unless otherwise specified, tolerances ±1/32 on fractions and ±.016 on decimals; plain bushings ±.016.
- Flanged bushings (sheet 1) carry no material code; plain bushings (sheet 2) add the material code after the dash number.
- Flanged bushings are for use with cable clamps MS3057-3A to -40A and MS3057-3C to -40C; plain bushings with MS3057-3B to -40B, MS3057-3C to -40C, MS3415, MS3417 and MS3418.
- Approved data governs. Use the part the drawing, SRM or IPC calls for.

SOURCES · MS3420 Rev. C, 19 Apr 1978 — Adapter, Cable Clamp to Cable, Bushing, Telescoping

SCAN · OPEN THIS DATA SHEET
theaviationpoint.com/parts/electrical/ms3420/