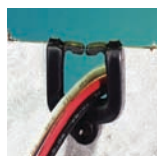


Grommets, Bushings & Insulators



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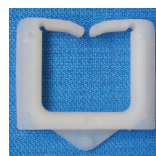
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Page F-3



Page F-4



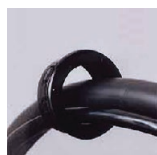
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Page F-12

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Or enter chapter page No. in Adobe Reader (e.g. „F-11“).
Use „last view“ button in Adobe Reader to return to this index.

- **Grommets, Bushings & Insulators**

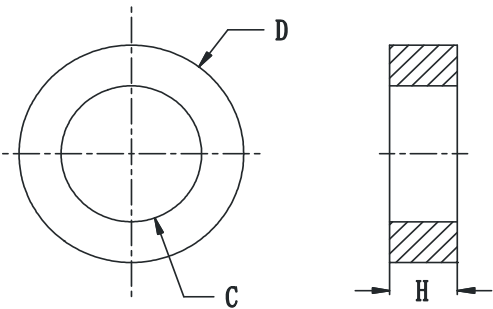


RoHS compliant

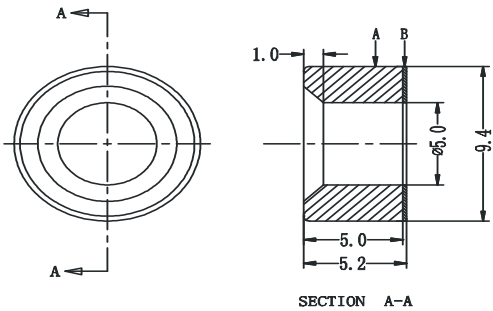
Nylon Spacer



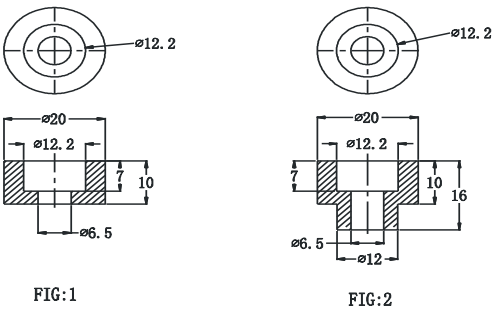
OT / X



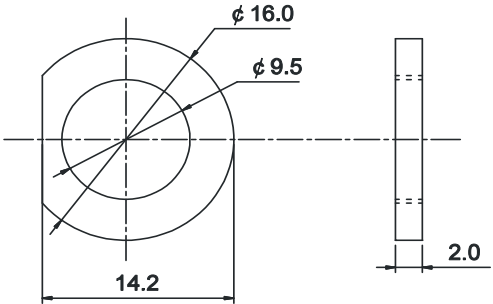
Part No.	C mm	D mm	H mm
611-30150016	Ø 3,70	Ø 6,45	15,2
611-30150014	Ø 9,85	Ø 15,75	4,75
611-30150004	Ø 11,3	Ø 16,15	3,25
Material: PA66			



Part No.			
OT-T5-V0	A		can be adhesiv the back
OT-T5-AT	B	NITTO 500	
OT-T5-V0-AT	A+B		
Material: PA6 C3U			



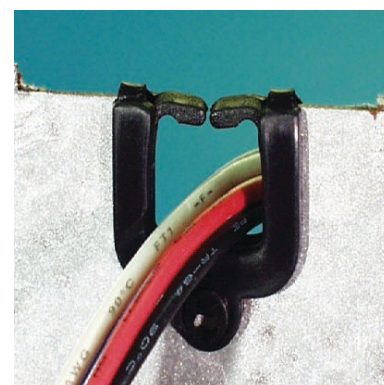
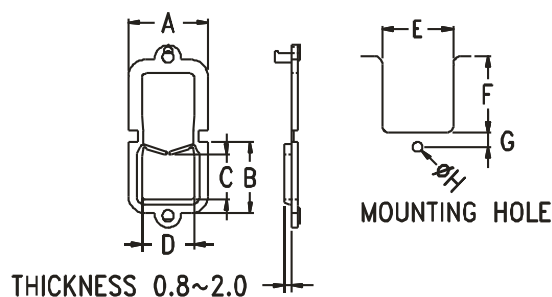
Part No.	FIG NO.
X-T10N	FIG.1
X-T16N	FIG.2
Material: PA66 + 33% GF	



Part No.	OT-T2N
Material:PA + 33% GF	

Color:	Natural
Std. Package:	1.000 pcs.

Edging Saddle

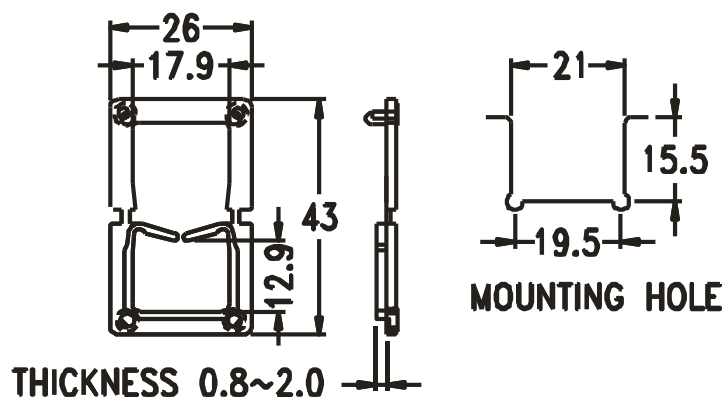


TRF-1/2

Part No.	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm
TRF-1	18.4	14.5	8.9	11.0	14.0	12.3	2.7	2.7
TRF-2	21.5	18.8	11.9	13.9	17.2	18.5	3.5	3.0

Material:	Nylon 66 (UL)
Flame class:	94 V-2
Color:	Black
Std. Package:	500 pcs.

Edging Saddle

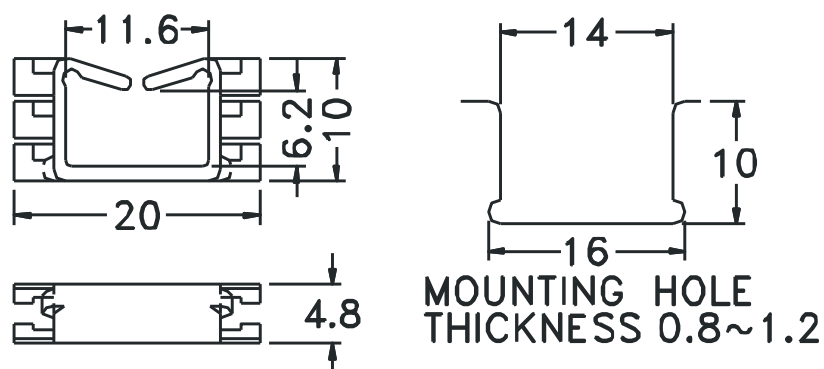


TRF-3

Part No.	Package
TRF-3	500

Material:	Nylon 66 (UL)
Flame class:	94 V-2
Color:	Black
Std. Package:	500 pcs.

Edging Saddle

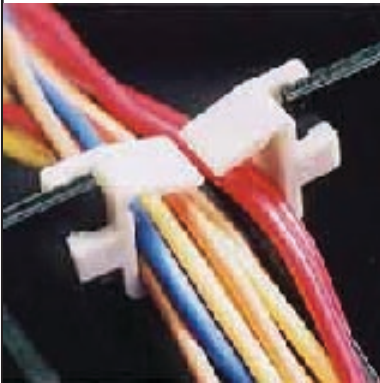


TRG-1

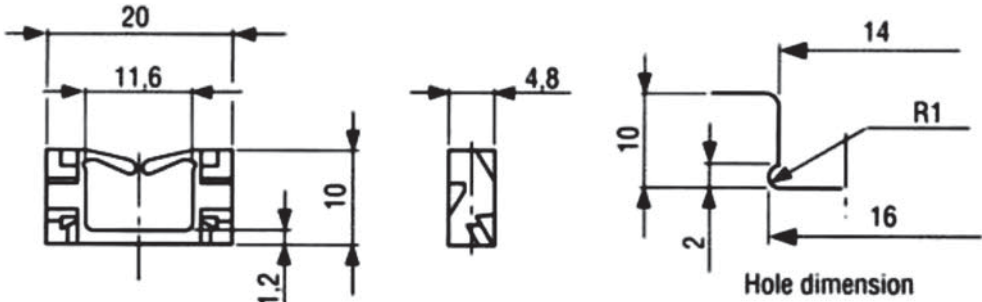
Part No.	Package
TRG-1	500

Material:	Nylon 66 (UL)
Flame class:	94 V-2
Color:	Black
Std. Package:	500 pcs.

Edging Saddle



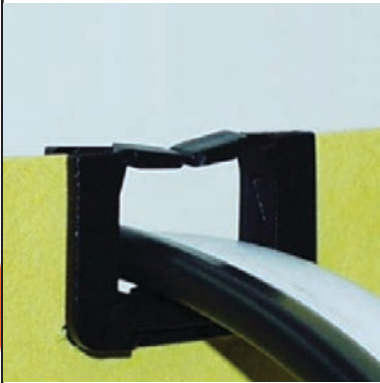
EDS



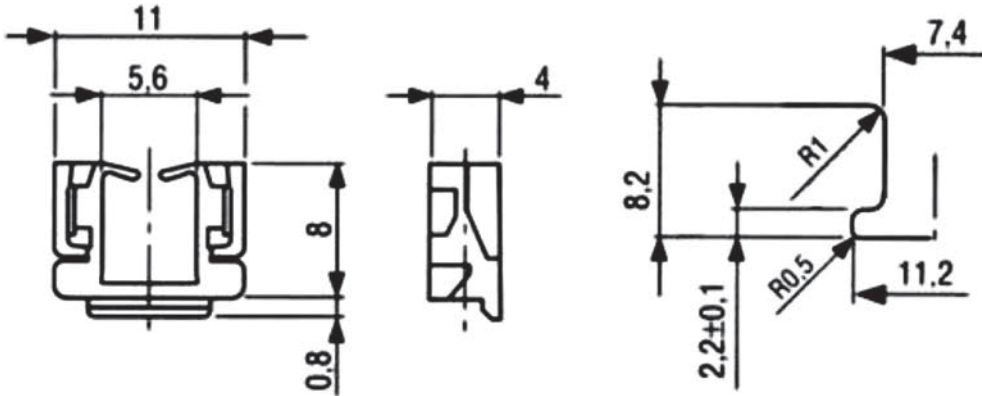
Material:	Nylon 66 (UL)
Flame class:	94 V-2
Color:	See table
Std. Package:	100 pcs.

Part No.	Panel thickness	Color
EDS-1	0.8 - 1.2	black
EDS-2	1.2 - 1.6	natural
EDS-3	1.6 - 2.0	gray

Edging Saddle



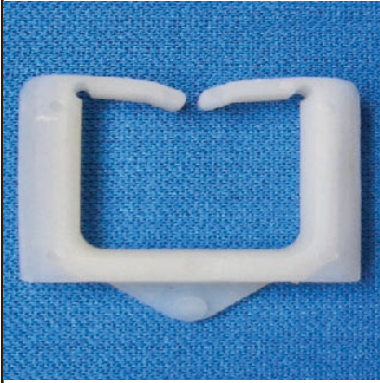
EDS-0607M



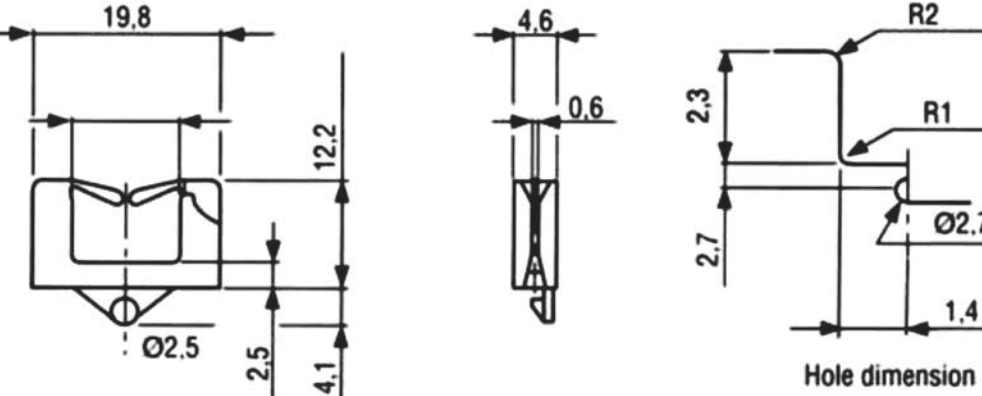
Material:	Nylon 66 (UL)
Flame class:	94 V-2
Color:	Black
Std. Package:	100 pcs.

Part No.	Panel thickness
EDS-0607M	0.8 - 1.2

Edging Saddle



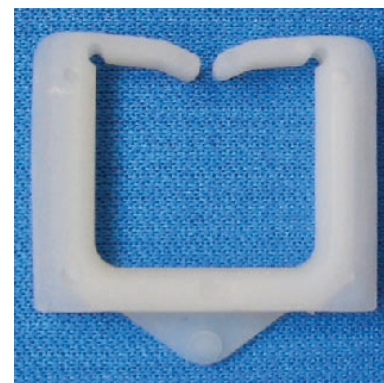
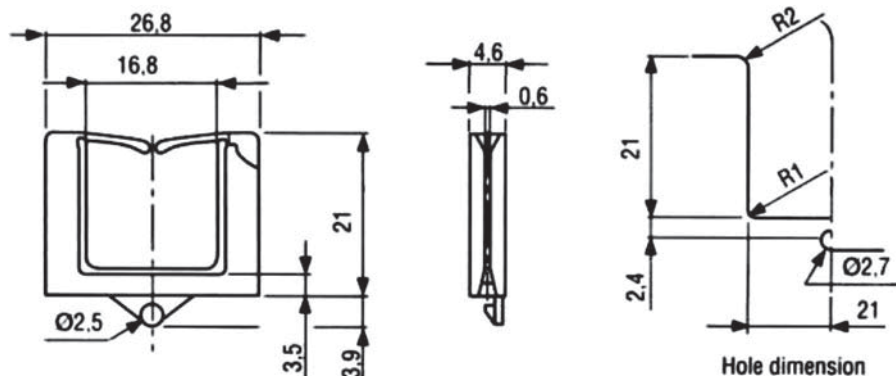
EDS-1208U



Material:	Nylon 66 (UL)
Flame class:	94 V-2
Color:	Natural
Std. Package:	100 pcs.

Part No.	Panel thickness
EDS-1208U	0.8 - 1.6

Edging Saddle

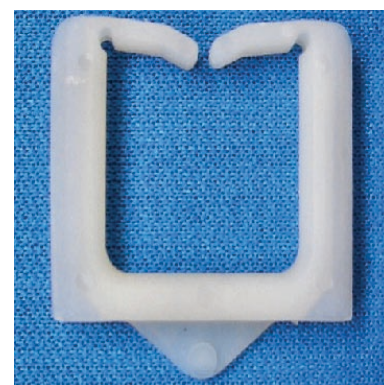
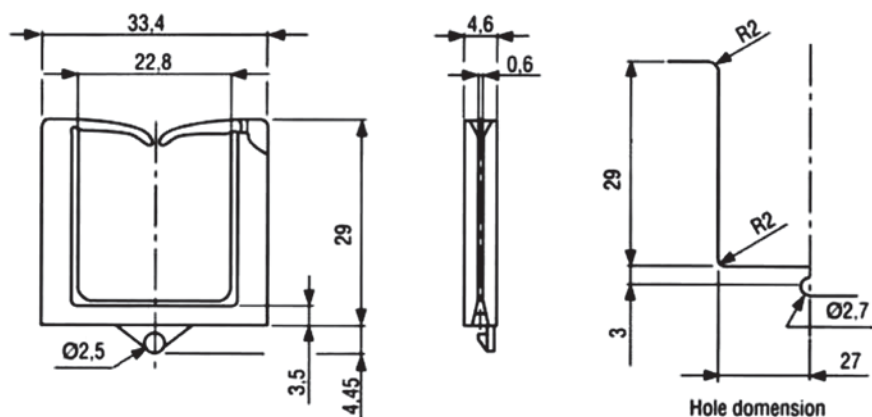


EDS-1717U

Part No.	Panel thickness
EDS-1717U	0.8 - 1.6

Material:	Nylon 66 (UL)
Flame class:	94 V-2
Color:	Natural
Std. Package:	100 pcs.

Edging Saddle

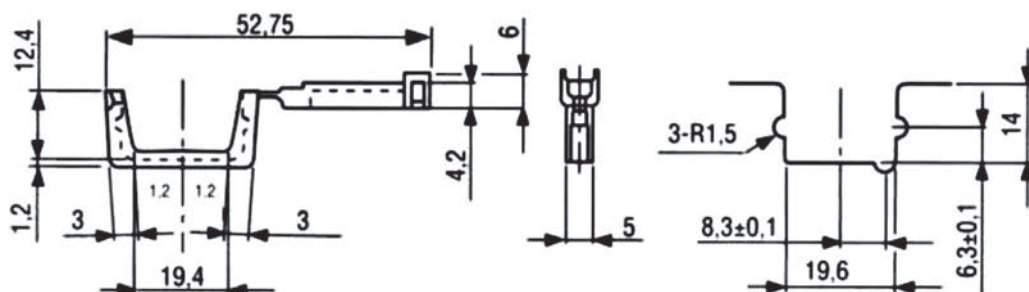


EDS-2323U

Part No.	Panel thickness
EDS-2323U	0.8 - 1.6

Material:	Nylon 66 (UL)
Flame class:	94 V-2
Color:	Natural
Std. Package:	100 pcs.

Edging Saddle



EDS-17L

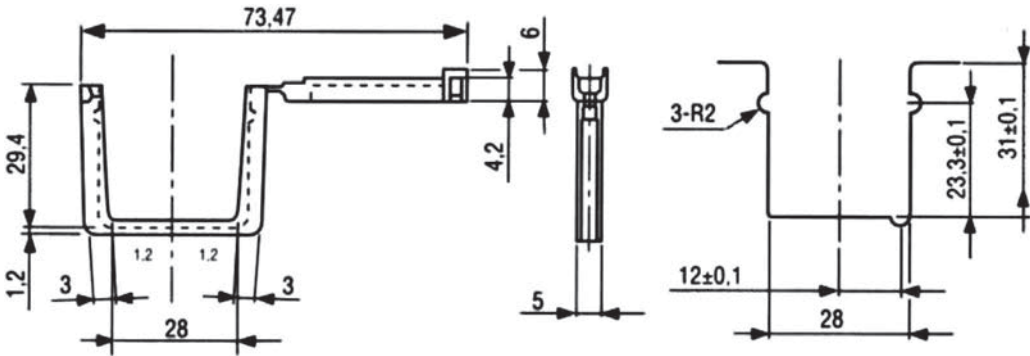
Part No.	Panel thickness
EDS-17L	0.8 - 2.2

Material:	Nylon 66 (UL)
Flame class:	94 V-2
Color:	Black
Std. Package:	500 pcs.

Edging Saddle



EDS-25L



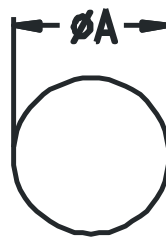
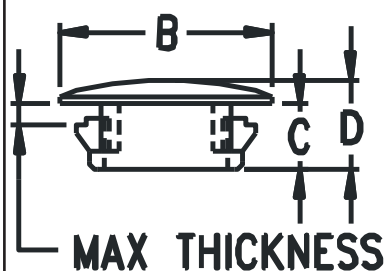
Material:	Nylon 66 (UL)
Flame class:	94 V-2
Color:	Black
Std. Package:	500 pcs.

Part No.	Panel thickness
EDS-25L	0.8 - 2.2



RoHS compliant

Hole Plugs



MOUNTING HOLE

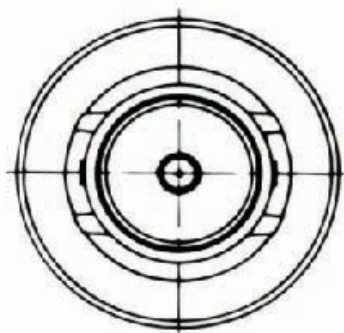
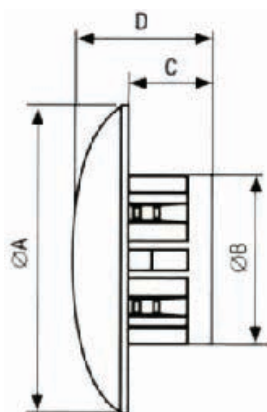


N

Part No.	A mm	B mm	C mm	D mm	Thick-ness	Package
N04	4.8	6.35	4.5	5.5	1.6	2000
N06	6.4	7.6		5.6		
N09S	9.5	13.0	4.1	5.5	1.4	1000
N13.5	13.5	15.2	5.0	6.2	2.2	500
N16S	15.9	20.0	6.5	7.7	2.0	

Material:	Nylon 66 (UL)
Flame class:	94 V-2
Color:	Natural
Std. Package:	See table

Dust Proof Bushing



DDB

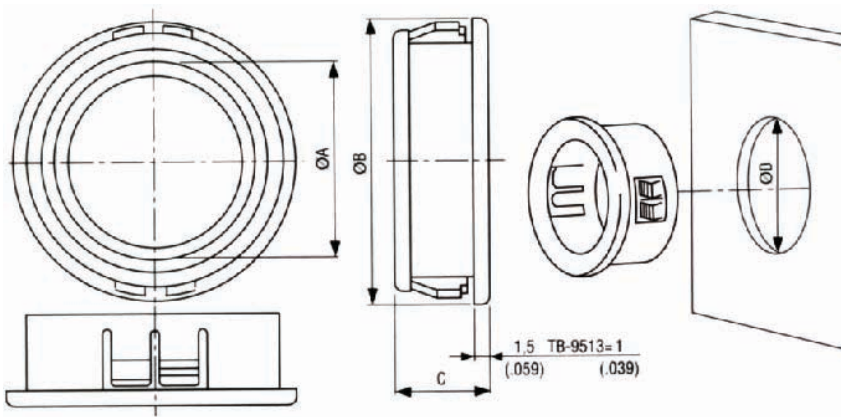
Part No.	ØA mm	ØB mm	C mm	D mm	Hole Diameter	Panel Thickness	Applicable Cable
DDB-1216	26	15	7.2	11.6	Ø16	1 - 3.2	Ø3 - Ø6
DDB-1520	30	19	6.8	12.4	Ø20		Ø3 - Ø9
DDB-2428	38	27		11.8	Ø28		Ø3 - Ø16

Material:	Soft part: Urethane Elastomer Hard part: Polyester Plastic
Flame class:	94 V-2
Color:	Grey
Std. Package:	100 pcs.

Snap Bushing



TB



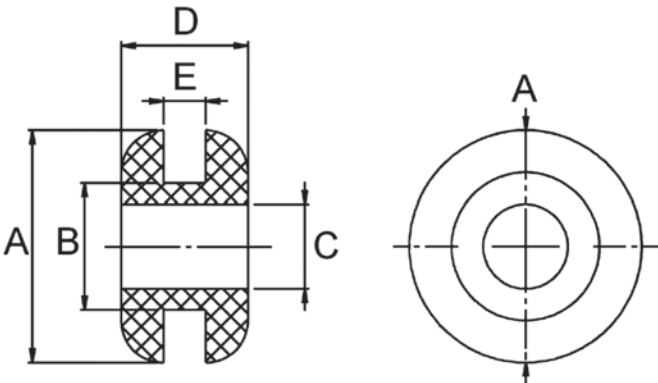
Material:	Nylon 6 (UL)
Flame class:	94 V-2
Color:	Black
Std. Package:	100 pcs.

Part No.	A mm	D mm	B mm	C mm
TB-0813	8.0	13.0	15.0	10.5
TB-1116	11.0	16.0	19.0	11.0
TB-1520	15.0	20.0	23.0	
TB-1926	19.0	26.0	29.0	12.0
TB-2533	25.0	33.0	36.0	
TB-2938	29.0	38.0	41.4	
TB-3545	35.0	44.5	48.0	
TB-9513	9.5	13.0	14.5	5.3

Hole Grommet



KIG

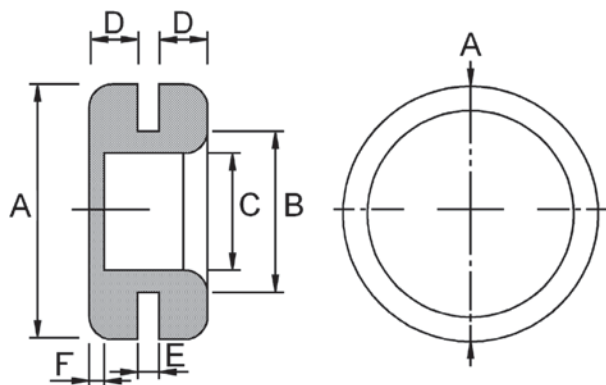


Material:	Rubber
Flame class:	94 V-2
Color:	Black
Std. Package:	100 pcs.

Part No.	A mm	B mm	C mm	D mm	E mm
KIG-29201	Ø 8,73	Ø 4,76	Ø 3,18	4,76	1,59
KIG-29202	Ø 9,53	Ø 6,35	Ø 3,97		
KIG-29203	Ø 8,73		Ø 3,18		
KIG-29204	Ø 11.90	Ø 7,94	Ø 5,55	3,18	0,79
KIG-29205	Ø 11,11		Ø 4,76	4,76	1,59
KIG-29206				6,35	2,38
KIG-29207			Ø 5,55	4,76	1,59
KIG-29208			Ø 3,18	5,55	
KIG-29209	Ø 14 29	Ø 9,53	Ø 6,35	6,35	
KIG-29211	Ø 15.88	Ø 11,11	Ø 7,94		
KIG-29212	Ø 17.46	Ø 12,70	Ø 9,53	7,14	
KIG-29216	Ø 25.40	Ø 19,05	Ø 6,35	6,35	2,38
KIG-29217			Ø 7,94	7,94	
KIG-29218				8,73	

RoHS compliant

Diaphragm Grommet

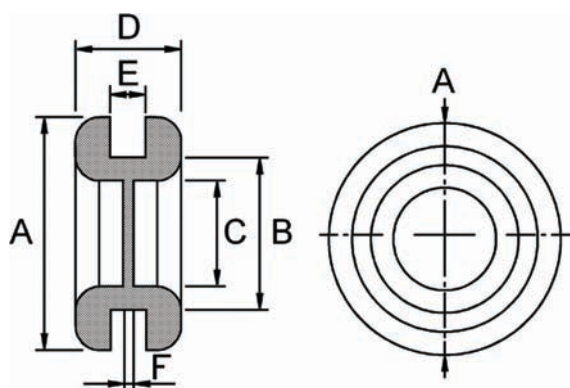


KIGDB

Part No.	A mm	B mm	C mm	D mm	E mm	F mm
KIGDB-29251	Ø 17,5	Ø 11,0	Ø 8,0	3,3	1,5	1,0
KIGDB-29252	Ø 16,0	Ø 12,0	Ø 9,0	2,5	2,0	
KIGDB-29253	Ø 15,5	Ø 12,5	Ø 9,5	2,5	1,5	
KIGDB-29254	Ø 19,0	Ø 16,0	Ø 11,0	3,3		
KIGDB-29255	Ø 25,5	Ø 19,0	Ø 16,0	2,8		
KIGDB-29256		Ø 22,0	Ø 19,0	3,3		
KIGDB-29257	Ø 30,0	Ø 25,5	Ø 20,5			

Material: Rubber
 Flame class: 94 V-2
 Color: Black
 Std. Package: 100 pcs.

Diaphragm Grommet



KIGD

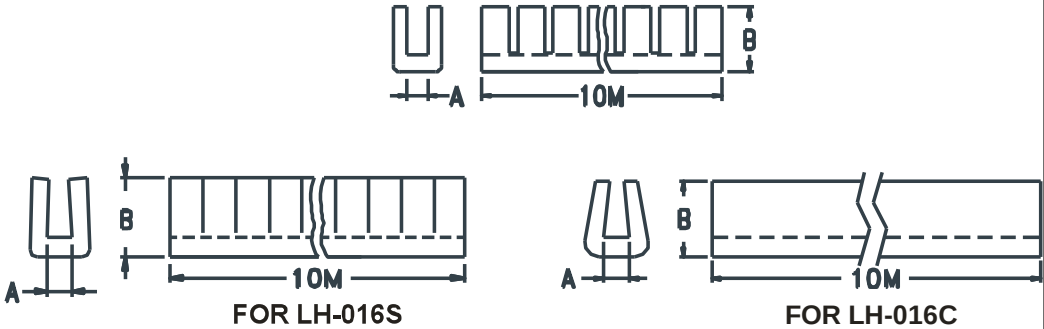
Part No.	A mm	B mm	C mm	D mm	E mm	F mm
KIGD-29301	Ø 20,0	Ø 13,0	Ø 9,0	9,0	3,0	1,0
KIGD-29302	Ø 19,0	Ø 16,0	Ø 11,0	6,0	1,5	
KIGD-29303	Ø 22,0		Ø 12,5	8,0	2,4	
KIGD-29304	Ø 24,0	Ø 20,0	Ø 13,5	7,0	2,0	
KIGD-29305	Ø 25,5	Ø 19,0	Ø 14,0	8,0	1,5	
KIGD-29306		Ø 20,0				
KIGD-29307		Ø 19,0	Ø 16,0		2,0	
KIGD-29308	Ø 36,5	Ø 25,5	Ø 19,0	8,5	2,4	
KIGD-29309	Ø 34,5	Ø 28,0	Ø 21,0	8,0	2,0	
KIGD-29310	Ø 38,0	Ø 32,0	Ø 25,5		2,4	
KIGD-29311	Ø 43,0	Ø 36,5	Ø 29,0	9,5	2,2	
KIGD-29312	Ø 49,0	Ø 42,0	Ø 31,0	10,0	2,4	

Material: Rubber
 Flame class: 94 V-2
 Color: Black
 Std. Package: 100 pcs.

Moveable Bushing



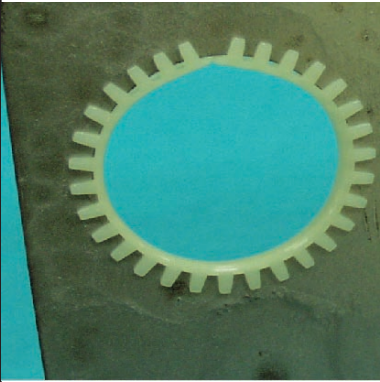
LH



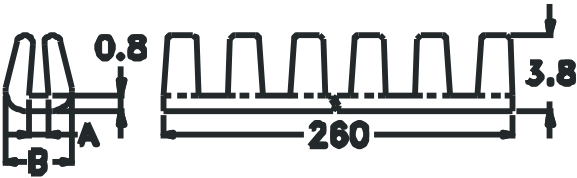
Material: Nylon 66 (UL)
Flame class: 94 V-2
Color: Natural
Std. Package: 10 M

Part No.	A mm	B mm	Chassis Thickness
LH-010	1.1	5.2	0.9-1.1
LH-012	1.3	5.4	1.1-1.3
LH-016	1.7	5.4	1.45-1.75
LH-016S	1.7	5.4	1.45-1.75
LH-016C	1.7	5.4	1.45-1.75
LH-020	2.2	5.4	1.85-2.2
LH-024	2.7	5.7	2.25-2.6
LH-030	3.3	6.1	2.85-3.25
LH-040	4.3	6.5	3.85-4.25

Moveable Bushing



LH-N



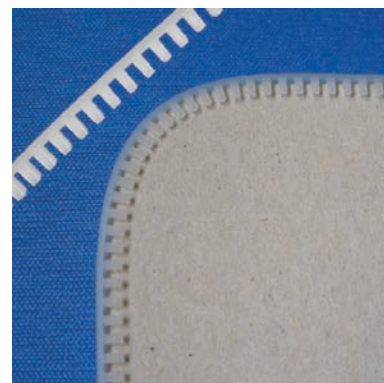
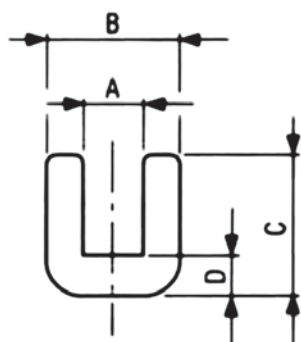
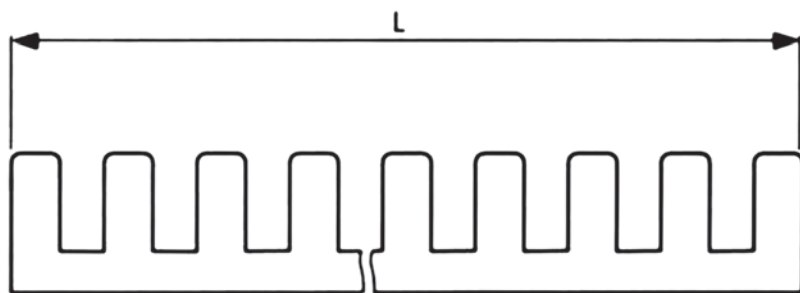
Material: Nylon 66 (UL)
Flame class: 94 V-2
Color: Natural
Std. Package: 500 pcs.

Part No.	A mm	B mm	Chassis Thickness
LH-006N	0.6	3.1	0.5-0.7
LH-008N	0.8	3.1	0.7-0.9
LH-010N	1.0	3.3	0.9-1.1
LH-012N	1.2	3.5	1.1-1.3
LH-014N	1.4	3.65	1.3-1.5
LH-016N	1.6	3.9	1.4-1.7
LH-020N	2.0	4.3	1.8-2.0
LH-030N	3.0	6.2	2.5-3.0



RoHS compliant

Flexible Injection Molded Grommet KG



KG

Part No.	A mm	B mm	C mm	D mm	L mm
KG-016L	1,7	3,7	4,0	1,2	500
KG-024L	2,4	4,4			

KG-016L , KG-024L (material 6/6 nylon)
also UL approved as finished products.

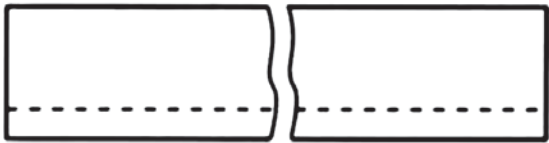
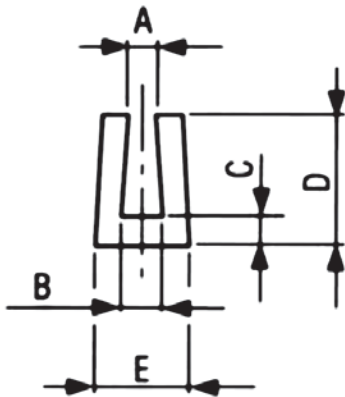
Part No.	A mm	B mm	C mm	D mm	L mm
KG-008	0,9	2,9	4,0	1,2	250,6
KG-010	1,1	3,1			
KG-012	1,3	3,3			
KG-016	1,7	3,7			252,0
KG-024	2,4	4,4			
KG-032	3,3	5,3	6,0	2,0	320,0
KG-045	5,0	8,2			
KG-062	6,5	9,7			
KG-082	8,2	11,4	6,5		
KG-107	10,7	13,9			
KG-132	13,2	16,4			
KG-014F	1,2	3,8	4,0	1,5	482,0
KG-023F	2,4	4,4	4,2	1,3	
KG-033F	3,3	5,3			

Material:	Nylon 6 (UL)
Flame class:	94 V-2
Color:	Natural
Std. Package:	100

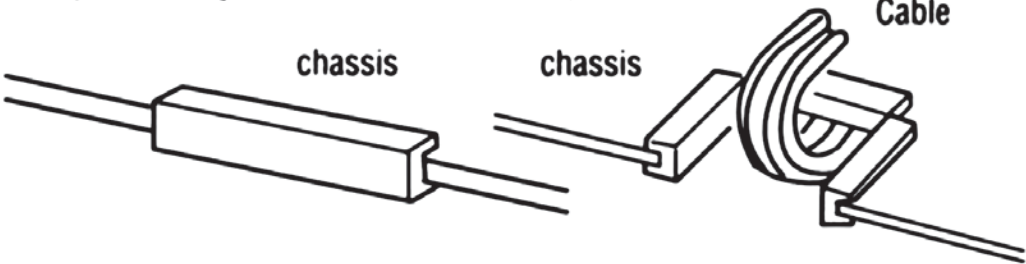
Edging CE



CE



● Example



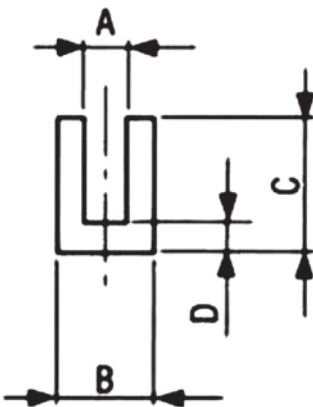
Material: Nylon 6 (UL)
Flame class: 94 -HB
Color: Natural
Std. Package: 100 x 1m

Part No.	Panel thickness	A mm	B mm	C mm	D mm	E mm
CE-012S	0,6 - 0,8	0,5	1,3	1	5	3,3
CE-012	1,0 - 1,2	0,6				
CE-016	1,2 - 1,6	0,9	1,7			3,7
CE-024	1,6 - 2,3	1,2	2,4			4,4
CE-032	2,3 - 3,2	1,5	3,3			5,3

Flexible Extruded Grommet CSG



CSG



Material: Nylon 6 (UL)
Flame class: 94 -HB
Color: Natural
Std. Package: 100 x 1m

Part No.	Panel thickness	A mm	B mm	C mm	D mm
CSG-012	1,2	1,3	3,3	5,0	1,0
CSG-016	1,6	1,7	3,7	5,2	1,2
CSG-024	2,3	2,4	4,4		
CSG-032	3,2	3,3	5,3		

RoHS compliant

