JDDTECH[®]

交织智慧 创造价值 Braiding wisdom, creating value



www.jddtech.com

Shenzhen Jdd Tech Co.,Ltd. Tel: (86)-0755-36653265 Fax: (86)-0755-33807127 Email: info@jddtech.com Add: Building 2, E zone, Minzhu Western Industrial Area, Shajing Town,Baoan District, Shenzhen City, 518104



Catalogue//// 2016 **Automotive products**

BRIEF INTRODUCTION

Shenzhen Jdd Tech Co., Ltd. was established in 2004. We are one of the leading manufacturers for protective sleeves in China. The three factories cover about 20,000 square meter, two are located in Guangdong, one is in Jiangsu. There are more than 300 employees including 10 R&D engineers, 12 product engineers and 15 QC. Our main equipments including 400 high speed braiding machines, 4 high precision monofilament extruding machines, 153 sets heat shrinkable tube extruding machines, 5 corrugated conduit production lines and etc.

JDDTECH[®]

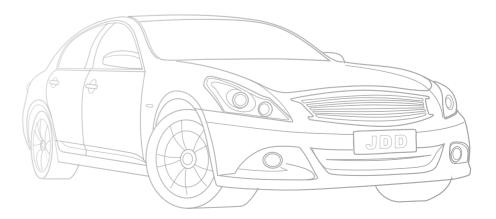
The company is certificated with ISO9001:2008 quality management system, ISO/TS16949:2009 for automotive industry and ISO 14001:2004 environmental management system. Most of our products meet ROHS, REACH, Halogen free, UL, CSA, some products meets MSHA, ISO6945, FMWSS-302, GMW14327, D47 1924, ISO 6722, S21 5101 standard, few products have passed railway flame retardant standard such as UK BS6853, German DIN 5510 and French NF F 16-101.

Our turnover have maintained 30% growth every year, about 50% export to the overseas market, mainly in Europe (Germany, Italy, UK, France...), America (USA, Canada, Mexico, Brazil...), South Africa and Japan. Our main customers including GM, VW, Toyota, BYD and Great Wall Motor.

We have more than 50 types of different protective sleevings. The wide product range offers a comprehensive solution for all types of cable, hose and pipe the mechanical & abrasion protection, noise reduction, electrical insulation, thermal protection, radiant heat protection and electromagnetic shielding. JDD products are widely used in automobile, railway, telecom, hydraulic heavy machinery, electronic, military and aerospace field.

The customers could collect all the materials one-stop purchase, OEM&ODM orders are welcome ! If you are looking for long term strategic partners, JDD is the best choice.

Dual wall heat shrinkable tube Non creasing air groove heat shrinkable tube Brake/Fuel line protection heat shrinkable tube Heat shrinkable tube for air-conditioning pipe Dual wall adhesive semirigid heat shrinkable tube Aluminum silicone coated fiberglass sleeving Corrugated flexible conduit More products



CONTENTS

 2
 3
 4
 5
 6
 7
 8
 9
 10
 11
 12
 13
 14
 15
 16
 17
 18
 19
 21

Polyester expandable sleeving — Auto FR1130 expandable sleeving -PPS braided expandable sleeving -Nylon 66 braided expandable sleeving -EMI shielding expandable sleeving -Heat shrinkable braided sleeve -Self closing wrap -Waved self-closing wrap -

Aluminum heat reflect corrugated conduit -Aluminum heat reflect fiberglass sleeving -Fiberglass sleeving -Normal wall heat shrinkable tube



* Aluminum heat reflect fiberglass sleeving





* Dual wall heat shrinkable tube















Polyester expandable sleeving



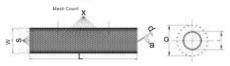
FR1100 Polyester expandable sleeving is consists of modified polyester monofilament. It offers lightweight, flame retardant and excellent abrasion resistance. The high expansion ratio allows it could be easily cover through the large cable connectors.

Application



Dimensions					
	Nominal	size (W)	Expandab	le Range	Packing
Part No.	Inch	mm	Min.(I)	Max.(O)	(m/spool)
FR1100-003	1/8"	3	1	6	1000
FR1100-006	1/4"	6	3	9	500
FR1100-008	5/16"	8	5	12	350
FR1100-010	3/8"	10	7	17	350
FR1100-012	1/2"	12	8	20	300
FR1100-016	5/8"	16	10	27	250
FR1100-019	3/4"	19	14	30	200
FR1100-025	1"	25	18	33	200
FR1100-032	1-1/4"	32	20	50	150
FR1100-038	1-1/2"	38	30	60	100
FR1100-045	1-3/4"	45	35	75	100
FR1100-050	2"	50	40	80	100
FR1100-064	2-1/2"	64	45	105	100
FR1100-076	3"	76	64	120	100

Drawing



It's used to protect the automotive rubber hose, wire harnesses against mechanical abrasion, fire resistance and fluid resistance.

Technical data				
Material	Polyester			
Working temperature	– 50°C – +150°C			
Melting point	240℃ ±10℃			
Flammability	UL VW-1 FMVSS302			
Color	Black and grey			
Approval	UL, ROHS, REACH, Halogen Free			
Cutting tool	Hot Knife			

Notes:

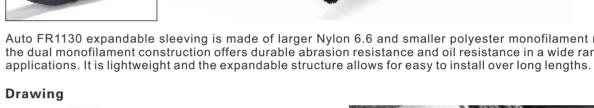
1.Nominal size indicates the flat width.

2. This sleeving has expandable character, the following sizes are covered by the nearest: 16mm=15mm, 19mm =20mm, 32mm =30mm, 38mm=40mm, 51mm=50mm.

3.Special colors, customized size, special package, cut into different length can be supplied upon request.

Unit: mm

4.All the numerical data are the average or typical values, not including the customized sizes.



It's used to cover cables, wire harnesses, tubes, industrial hoses where need extremely anti-abrasion in automotive, railway and panel board field.

Technical data			
Material	Polyester, Nylon		
Working temperature	– 50°C – +150°C		
Flammability	FMVSS302		
Color	Black		
Approval	RoHS		
Cutting tool	Hot Knife		

Technical data				
Material	Polyester, Nylon			
Working emperature	– 50°C – +150°C			
lammability	FMVSS302			
Color	Black			
Approval	RoHS			
Cutting tool	Hot Knife			

Notes:

- 1. Nominal size indicates the flat width.
- 2. This sleeving has expandable character, the following sizes are covered by the nearest: 16mm=15mm, 19mm =20mm , 32mm =30mm , 38mm=40mm, 51mm=50mm.
- 3.Special colors, customized size, special package, cut into different length can be supplied upon request.
- 4.All the numerical data are the average or typical values, not including the customized sizes.



Auto FR1130 expandable sleeving



Auto FR1130 expandable sleeving is made of larger Nylon 6.6 and smaller polyester monofilament mixed braiding, the dual monofilament construction offers durable abrasion resistance and oil resistance in a wide range of industrial

Application



Dimensions					
Part No.	Nominal Size (W)		Expandable Range		Packing
Turrito.	Inch	mm	Min. (I)	Max. (O)	(m/spool)
FR1130-010	3/8"	10	7	15	350
FR1130-012	1/2"	12	8	17	300
FR1130-014	5/9"	14	9	20	250
FR1130-016	5/8"	16	10	23	250
FR1130-019	3/4"	19	13	28	200
FR1130-025	1"	25	16	35	200
FR1130-032	1-1/4"	32	20	45	100





PPS braided expandable sleeving



FR1080 V0 PPS braided expandable sleeving is made of PolyPhenylene Sulfide (PPS) monofilament which meet UL94 V-0 standard raw material. It offers high abrasion resistance, chemical resistance, high temperature stability, with low moisture absorption and excellent dimensional stability function.

Unit: mm

Application



Dimensions					
	Nominal	size (W)	Expandab	le Range	Packing
Part No.	Inch	mm	Min.(I)	Max.(O)	(m/spool)
FR1080-003	1/8"	3	1	6	1000
FR1080-006	1/4"	6	3	9	500
FR1080-008	5/16"	8	5	12	350
FR1080-010	3/8"	10	7	17	350
FR1080-012	1/2"	12	8	20	300
FR1080-016	5/8"	16	10	27	250
FR1080-019	3/4"	19	14	30	200
FR1080-025	1"	25	18	33	200
FR1080-032	1-1/4"	32	20	50	150
FR1080-038	1-1/2"	38	30	60	100
FR1080-045	1-3/4"	45	35	75	100
FR1080-050	2"	50	40	80	100
FR1080-064	2-1/2"	64	45	105	100
FR1080-076	3"	76	64	120	100

Notes:

1.Nominal size indicates the flat width.

2. This sleeving has expandable character, the following sizes are covered by the nearest: 16mm=15mm, 19mm =20mm, 32mm =30mm, 38mm=40mm, 51mm=50mm.

3.Customized size, special package, cut into different length can be supplied upon request.

4.All the numerical data are the average or typical values, not including the customized sizes.



Drawing

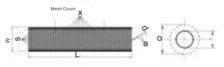
It is widely used in the following fields: automotive, railways, aerospace, telecom and military where needs high flameretardant and high temperature resistance.

Technical data				
Material	PPS			
Working temperature	- 70℃ - + 200℃			
Melting point	285℃ ±10℃			
Flammability	UL 94V-0			
Color	Black			
Other feature	acid, solvents and fluid resistant			
Approval	RoHS			
Cutting tool	Hot knife			



FR1200 nylon expandable sleeving is made of nylon 6.6 monofilament which offers excellent performance of abrasion resistance, it is tough, flexible, light weight and resistant to trapping water, heat and humidity, the open-weave construction enables each size to expand to fit several sizes and shapes.

Drawing



It is most commonly used to protect wire harnesses, cable assemblies, water hose, aircondition pipes, fluid pipes in automotive, railway, electronic, and telecom industry.

Technical data		
Material	Polyamide 66	
Working temperature	- 60℃- +160℃	
Flammability	FMVSS302	
Melting point	256℃ ±5℃	
Color	Black and grey	
Approval	RoHS	
Cutting tool	Hot Knife	



Ра	rt	Ν	0	•
----	----	---	---	---

Part No. Inch mm Min.(I) Max.(O) (m/spool FR1200-003 1/8" 3 1 6 1000 FR1200-006 1/4" 6 3 9 500 FR1200-008 5/16" 8 5 12 350 FR1200-010 3/8" 10 7 17 350 FR1200-012 1/2" 12 8 20 300 FR1200-016 5/8" 16 10 27 250 FR1200-019 3/4" 19 14 30 200 FR1200-025 1" 25 18 33 200 FR1200-032 1-1/4" 32 20 50 150 FR1200-038 1-1/2" 38 30 60 100 FR1200-045 1-3/4" 45 35 75 100 FR1200-050 2" 50 40 80 100	Dimensions					
InchmmMin.(I)Max.(O)(m/spoolFR1200-0031/8"3161000FR1200-0061/4"639500FR1200-0085/16"8512350FR1200-0103/8"10717350FR1200-0121/2"12820300FR1200-0165/8"161027250FR1200-0193/4"191430200FR1200-0251"251833200FR1200-0321-1/4"322050150FR1200-0451-3/4"453575100FR1200-0502"504080100	5 (N	Nominal	size (W)	Expandab	le Range	Packing
FR1200-006 1/4" 6 3 9 500 FR1200-008 5/16" 8 5 12 350 FR1200-010 3/8" 10 7 17 350 FR1200-010 3/8" 10 7 17 350 FR1200-012 1/2" 12 8 20 300 FR1200-012 1/2" 12 8 20 300 FR1200-016 5/8" 16 10 27 250 FR1200-019 3/4" 19 14 30 200 FR1200-025 1" 25 18 33 200 FR1200-032 1-1/4" 32 20 50 150 FR1200-038 1-1/2" 38 30 60 100 FR1200-045 1-3/4" 45 35 75 100 FR1200-050 2" 50 40 80 100	Part No.	Inch	mm	Min.(I)	Max.(O)	(m/spool)
FR1200-008 5/16" 8 5 12 350 FR1200-010 3/8" 10 7 17 350 FR1200-012 1/2" 12 8 20 300 FR1200-012 1/2" 12 8 20 300 FR1200-016 5/8" 16 10 27 250 FR1200-019 3/4" 19 14 30 200 FR1200-025 1" 25 18 33 200 FR1200-032 1-1/4" 32 20 50 150 FR1200-038 1-1/2" 38 30 60 100 FR1200-045 1-3/4" 45 35 75 100 FR1200-050 2" 50 40 80 100	FR1200-003	1/8"	3	1	6	1000
FR1200-010 3/8" 10 7 17 350 FR1200-012 1/2" 12 8 20 300 FR1200-012 1/2" 12 8 20 300 FR1200-016 5/8" 16 10 27 250 FR1200-019 3/4" 19 14 30 200 FR1200-025 1" 25 18 33 200 FR1200-032 1-1/4" 32 20 50 150 FR1200-038 1-1/2" 38 30 60 100 FR1200-045 1-3/4" 45 35 75 100 FR1200-050 2" 50 40 80 100	FR1200-006	1/4"	6	3	9	500
FR1200-012 1/2" 12 8 20 300 FR1200-016 5/8" 16 10 27 250 FR1200-019 3/4" 19 14 30 200 FR1200-025 1" 25 18 33 200 FR1200-032 1-1/4" 32 20 50 150 FR1200-038 1-1/2" 38 30 60 100 FR1200-045 1-3/4" 45 35 75 100 FR1200-050 2" 50 40 80 100	FR1200-008	5/16"	8	5	12	350
FR1200-016 5/8" 16 10 27 250 FR1200-019 3/4" 19 14 30 200 FR1200-025 1" 25 18 33 200 FR1200-032 1-1/4" 32 20 50 150 FR1200-038 1-1/2" 38 30 60 100 FR1200-045 1-3/4" 45 35 75 100 FR1200-050 2" 50 40 80 100	FR1200-010	3/8"	10	7	17	350
FR1200-019 3/4" 19 14 30 200 FR1200-025 1" 25 18 33 200 FR1200-032 1-1/4" 32 20 50 150 FR1200-038 1-1/4" 32 20 50 150 FR1200-038 1-1/2" 38 30 60 100 FR1200-045 1-3/4" 45 35 75 100 FR1200-050 2" 50 40 80 100	FR1200-012	1/2"	12	8	20	300
FR1200-025 1" 25 18 33 200 FR1200-032 1-1/4" 32 20 50 150 FR1200-038 1-1/2" 38 30 60 100 FR1200-045 1-3/4" 45 35 75 100 FR1200-050 2" 50 40 80 100	FR1200-016	5/8"	16	10	27	250
FR1200-032 1-1/4" 32 20 50 150 FR1200-038 1-1/2" 38 30 60 100 FR1200-045 1-3/4" 45 35 75 100 FR1200-050 2" 50 40 80 100	FR1200-019	3/4"	19	14	30	200
FR1200-038 1-1/2" 38 30 60 100 FR1200-045 1-3/4" 45 35 75 100 FR1200-050 2" 50 40 80 100	FR1200-025	1"	25	18	33	200
FR1200-045 1-3/4" 45 35 75 100 FR1200-050 2" 50 40 80 100	FR1200-032	1-1/4"	32	20	50	150
FR1200-050 2" 50 40 80 100	FR1200-038	1-1/2"	38	30	60	100
	FR1200-045	1-3/4"	45	35	75	100
	FR1200-050	2"	50	40	80	100
FR1200-064 2-1/2" 64 45 105 100	FR1200-064	2-1/2"	64	45	105	100
FR1200-076 3" 76 64 120 100	FR1200-076	3"	76	64	120	100

Notes:

1. Nominal size indicates the flat width.

2. This sleeving has expandable character, the following sizes are covered by the nearest: 16mm=15mm, 19mm =20mm, 32mm =30mm, 38mm=40mm, 51mm=50mm.

3.Special colors, customized size, special package, cut into different length can be supplied upon request.

4.All the numerical data are the average or typical values, not including the customized sizes.



Nylon 66 braided expandable sleeving



Application



EMI Shielding expandable sleeving

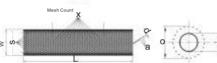


FR1140 EMI Shielding expandable sleeving is made of tinned copper wire and polyester monofilament mix braiding, It's specially designed for mechanical wear resistance and anti-electromagnetic for the automotive wire harness. The important feature is that it's more suitable for operating in the narrow space because of the material's high flexibility, meanwhile it is much lighter, softer and cost effective than the normal tinned copper sleeving.

Application



Drawing



It is widely used in automotive wire harness field, it can provide wear resistance, EMI shielding and anti signal interference for the harnesses.

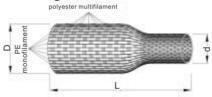
Dimensions					
	Nominal size(W)		Expandable Range		Packing
Part No.	Inch	mm	Min.(I)	Max.(o)	(m/spool)
FR1140-006	1/4''	6	3	8	200
FR1140-008	5/16''	8	5	13	200
FR1140-010	3/8''	10	7	16	150
FR1140-012	1/2''	12	8	20	150
FR1140-016	5/8''	16	10	24	100
FR1140-019	3/4"	19	14	30	100
					Unit: mm

Technical data		
Material	Polyester, tinned copper	
Working temperature	-50 °C -+150 °C	
Melting point	240℃±10℃	
Flammability	FMVSS302	
Color	Black mix silver	
Approval	RoHS	
Cutting tool	Scissors	



HSS6400 heat shrinkable textile sleeve consists of polyester multifilament and special modified polyolefin monofilament, the shrink ratio is 2:1, the special woven construction makes it very flexible, it can be easily cover on the hoses with irregular shapes. It is suitable for used in rough environments, providing excellent abrasion resistance and noise reduction.

Drawing



It is widely used to protect the automotive rubber hoses, aircondition pipes, wire harnesses for anti abrasion, noisy reduction and fuel resistance.

Technical data			
Material	Polyolefin and polyester		
Working temperature	- 40°C - + 125°C		
Shrink temperature	110℃~185℃		
Flammability	FMVSS302		
Color	black		
Shrink ratio	2:1		
Approval	RoHS, Halogen Free		
Tool	Heat gun, oven		

Notes:

- 1.Nominal size indicates the inner diameter.
- 2.Special colors, customized size, special package, cut into different length can be supplied upon request.
- 3.All the numerical data are average or typical values, not including customized sizes.
- 4.The maximum storge temperature: 60°C

Notes:

- 1.Nominal size indicates the flat width.
- 2. This sleeving has expandable character, the following sizes are covered by the nearest: 16mm=15mm, 19mm=20mm, 32mm=30mm, 38mm=40mm, 51mm=50mm.
- 3. Special colors, customized size, special package, cut into different length can be supplied upon request.
- 4.All the numerical data are the average or typical values, not including the customized sizes.



Heat shrinkable textile sleeve

Application



Dimensions			
Part No.	As supplied (D)	After recovery (d)	Packing (m/spool)
ISS6400-010	10	5.0	100
ISS6400-020	20	10.0	100
ISS6400-025	25	12.5	100
ISS6400-030	30	15.0	100
ISS6400-034	34	17.0	100
ISS6400-040	40	20.0	50
ISS6400-050	50	25.0	50
ISS6400-060	60	30.0	50
ISS6400-070	70	35.0	50
ISS6400-080	80	40.0	50



Self-closing wrap





SCS2160 self-closing wrap is a non-expandable sleeving woven from monofilament (weft) and multifilament (warp) polyester yarns. It is lightweight, dustproof, flame retardant, cost-effective and highly abrasion resistance, the split open design allows easy install on the cable harness which has been assembled.

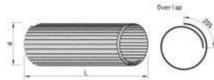
Application

Note:



Dimensions				
Part No.	I.D.(d)	Max. bundle Dia.	Packing (m/spool)	
SCS2160-005	5.0	6.0	100	
SCS2160-008	8.0	9.0	100	
SCS2160-010	10.0	11.0	100	
SCS2160-013	13.0	14.0	50	
SCS2160-016	16.0	17.0	25	
SCS2160-019	19.0	20.0	25	
SCS2160-025	25.0	27.0	25	
SCS2160-029	29.0	31.0	25	
SCS2160-032	32.0	34.0	25	
SCS2160-038	38.0	40.0	25	
SCS2160-050	50.0	52.0	25	

Drawing



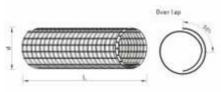
It most commonly be used on wire harnesses, cable assemblies, tubes and cables to provide a tough, durable protection in automotive, telecom, automatic equipment, railways and panel boards.

Technical data		
Material	Polyester monofilament and multifilament	
Working temperature	- 50℃- +150℃	
Melting point	240℃±10℃	
Flammability	FMVSS302	
Color	Black	
Approval	RoHS, Halogen free, DIN5510,EN45545	
Cutting tool	Hot knife	



SCK2160 waved self closing wrap is a new type of self-closing wrap, it consists of special modified monofilament and multifilament yarns. It has excellent abrasion resistance, noise reduction, meanwhile it is very easy for installation and removal.

Drawing



It is widely used on wire harnesses, tubes and hoses providing a tough and durable protection in telecom, railway, automotive, equipments and machines.

Technical data		
Material	Polyester	
Working temperature	- 50℃- +150℃	
Melt point	240℃±10℃	
Flammability	FMVSS302	
Standard colors	Black	
Approved	RoHS, Halogen free	
Cutting tool	Hot knife, Scissors	

Dimensions				
pool)				

Note:

1. The part No. will be followed by BK, GR and so on to indicate the color of the wrap.

2. Special colors, customized size, special package, cut into different length can be supplied upon request.

Unit: mm

3.All the numerical data are the average or typical values, not including the customized sizes. 4. The installing tool are available for sale.

3.All the numerical data are the average or typical values, not including the customized sizes. 4. The installing tool are available for sale.



Waved self closing wrap

Application

2.Special colors, customized size, special package, cut into different length can be supplied upon request.





Aluminum foil corrugated conduit





AFW3530 aluminum foil corrugated conduit is constructed of 3 layers, the middle layer is made of fiberglass yarn braiding, the inside and outside layer are both covered by aluminum foil. The special design provides excellent long-term heat protection for the rubber hose, wire harness and cables in the high temperature area, engine room.

Application



Dimensions				
Part No.	I.D.(d)	O.D.(D)	Packing (L)	
AFW3530-009	9±0.3mm	12.0±0.5mm		
AFW3530-012	12±0.3mm	15.0±0.5mm		
AFW3530-014	14±0.3mm	17.0±0.5mm		
AFW3530-016	16±0.3mm	19.0±0.5mm		
AFW3530-018	18±0.3mm	21.0±0.5mm		
AFW3530-020	20±0.5mm	23.0±0.5mm		
AFW3530-022	22±0.5mm	25.8±0.5mm	1m/PCS	
AFW3530-025	25±0.5mm	28.7±0.5mm		
AFW3530-028	28±0.5mm	31.8±0.5mm		
AFW3530-032	32±0.5mm	35.9±0.5mm		
AFW3530-040	40±0.5mm	43.8±0.5mm		
AFW3530-060	60±0.5mm	63.8±0.5mm		
AFW3530-080	80±0.5mm	83.8±0.5mm		

Drawing



This product provides heat reflection and heat resistance protection for a wide range of industries and applications, including automotive, railway, engines and transformers.

Technical data		
Material	Aluminum and fiberglass yarn	
Working temperature	-50°C-+200°C	
Standard color	Natural color	
Certificate	RoHS	
Cutting tool	scissor	

Notes:

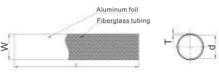
Unit: mm

- 1.The two layer construction are also available. It is composed of the inner glass fiber and the outer aluminum foil.
- 2. All numeric data shows the average or typical values, not including the customized sizes.
- 3. The special size and packing length are available upon request.



AFR1067 aluminum heat reflect fiberglass sleeving is special designed by laminating an aluminized metallic heat shield to a layer of strong and tight braided fiberglass yarn. A special manufacturing process permits the sleeve to boast a virtually seamless and non fraying construction. This aluminized fiberglass sleeve reflects more than 95% of the radiant energy that hits its surface, keeping the underlying cables, hoses and wires cool.

Drawing



It offers perfect heat reflect and protection for automotive rubber hose, wire harness near engine room with high temperature environment.

Technical data		
Outside	Aluminum foil	
Inside	Fiberglass sleeving	
Working temperature	- 50 ℃ -+200 ℃	
Color	Sliver white	
Approval	RoHS	
Cutting tool	scissor	

AFR1067-01 AFR1067-01 AFR1067-02 AFR1067-02 AFR1067-03 AFR1067-03

Part No.

Note:

1.Customized size, special package, cut into different length can be supplied upon request. 2.All the numerical data are the average or typical value, not including the customized sizes. 3.Normally it will be supplied in flat shape. The round shape sleeving can be made upon requests.



Aluminum heat reflect fiberglass sleeving

Application



Dimensions	
DIMENSIONS	

	I.D. (d)	Flat width (W)	Wall thickness (T)	Max. bundle dia.	Packing (L)
10	10.0	19.0	1.0	11.0	
16	16.0	29.0	1.0	17.0	
20	20.0	35.0	1.0	21.0	50m/spool
25	25.0	43.0	1.0	26.0	5011/30001
30	30.0	51.0	1.0	31.0	
35	35.0	59.0	1.0	36.0	





Fiberglass sleeving



MBQGD fiberglass sleeving is made of E-class fiberglass braiding sleeve treated at high temperature with a special kind of silicone resin and possess outstanding a temperature classification of 200°C. Usually it is used for the insulation protection for the wire harnesses in automotive field. It also has excellent properties of self-extinguishing and flexibility.

Application



Dimensions						
Part No.	Dest No. I.D. Televenes Wall thickness			SS	Packing	
Part No.	(1)	Tolerance	1.5kv	2.5kv	4kv	(m/roll)
MBQGD-1.0	1.0	+0.3/-0.1	0.30±0.05	0.40±0.05	0.5±0.05	100
MBQGD-1.5	1.5	+0.3/-0.1	0.30±0.05	0.40±0.05	0.5±0.05	100
MBQGD-2.0	2.0	+0.3/-0.1	0.30±0.05	0.40±0.05	0.5±0.05	100
MBQGD-2.5	2.5	+0.3/-0.1	0.30±0.05	0.40±0.05	0.5±0.05	100
MBQGD-3.0	3.0	+0.3/-0.1	0.35±0.05	0.40±0.05	0.5±0.05	100
MBQGD-3.5	3.5	+0.3/-0.1	0.35±0.05	0.45±0.05	0.5±0.05	100
MBQGD-4.0	4.0	+0.3/-0.1	0.35±0.05	0.45±0.05	0.5±0.05	100
MBQGD-4.5	4.5	+0.3/-0.1	0.40±0.05	0.45±0.05	0.5±0.05	100
MBQGD-5.0	5.0	+0.4/-0.1	0.40±0.05	0.45±0.05	0.5±0.05	100
MBQGD-5.5	5.5	+0.4/-0.1	0.40±0.05	0.45±0.05	0.6±0.05	100
MBQGD-6.0	6.0	+0.4/-0.1	0.45±0.05	0.50±0.05	0.6±0.05	100
MBQGD-7.0	7.0	+0.4/-0.1	0.45±0.05	0.50±0.05	0.6±0.05	100
MBQGD-8.0	8.0	+0.4/-0.1	0.50±0.05	0.60±0.05	0.7±0.05	50
MBQGD-9.0	9.0	+0.5/-0.1	0.50±0.05	0.60±0.05	0.7±0.05	50
MBQGD-10	10	+0.5/-0.1	0.50±0.05	0.60±0.05	0.7±0.05	50
MBQGD-11	11	+0.5/-0.1	0.50±0.05	0.60±0.05	0.7±0.05	50
MBQGD-12	12	+0.5/-0.1	0.50±0.05	0.60±0.05	0.7±0.05	50
						Unit: mm

Drawing



This sleeving is widely used for supplementary insulation on transformer, motor, generator and resistor etc.

Technical data				
Material	Fiberglass			
Coating	Silicone resin			
Working temperature	-60℃~+200℃			
Breakdown voltage	1.5kv~4kv			
Flammability	UL VW-1			
Color	White			
Approval	RoHS, UL			
Cutting tool	Cutting machine, scissor			

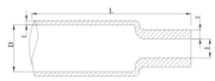
Note:

- 1.The part No. will be followed by BK, RD,YL,BL and so on to indicate the color of the sleeving.
- 2.Special packing, sizes, colors and cutting into different length can be supplied upon requests.
- 3.All the numerical data are the average or typical values, not including the customized sizes.



MRSG normal wall heat shrinkable tube is a newly developed environment-friendly flame retardant heat-shrinkable tube, using modified polymers and cross-linked by electronic accelerator. It offers an economic and efficient solution for the insulation and protection of cable splices and terminals.

Drawing



It widely used in automotive field for connection insulation and rust-proof, waterproof and insulation protection.

Technical data				
Material	Polyethylene			
Working temperature	-55℃-+125℃			
Shrink temperature	Start at 70℃, complete shrink at 110℃			
Longitudinal shrinkage	≤5%			
Flammability	UL VW-1			
Shrink ratio	2:1			
Approval	UL, CSA, RoHS, Halogen free			
Tool	Heat gun, Oven			

Notes:

- 1.Special packing, sizes, colors and cutting in to different length can be supplied upon requests.
- 2.All the numerical data are the average or typical values, not including the customized sizes.
- 3.The max. dia. is 200mm, for more details pls contact our sales team.

Part No. MRSG-1.0 MRSG-1.5 MRSG-2.0 MRSG-2.5 MRSG-3.0 MRSG-3.5 MRSG-4.0 MRSG-4.5 MRSG-5.0 MRSG-5.5 MRSG-6.0 MRSG-6.5 MRSG-7.0 MRSG-8.0 MRSG-9.0 MRSG-10 MRSG-11 MRSG-12 MRSG-13 MRSG-14 MRSG-15 MRSG-16 MRSG-17 MRSG-18 MRSG-20 MRSG-22 MRSG-25



Normal wall heat shrinkable tube

Application



Dimensions

As su	pplied	After recovery		Packing
I. D.	Wall	Max.	Wall	(m/spool)
(D)	thickness(t)	I.D. (I)	thickness(T)	X P 7
1.5±0.2	0.18±0.03	≤0.65	0.36±0.10	200
2.0±0.3	0.18±0.03	≤0.85	0.36±0.10	200
2.5±0.3	0.20±0.05	≤1.00	0.40±0.10	200
3.0±0.3	0.20±0.04	≤1.25	0.40±0.10	200
3.5±0.4	0.20±0.04	≤1.50	0.40±0.10	200
4.0±0.4	0.22±0.04	≤1.75	0.44±0.10	200
4.5±0.4	0.25±0.04	≤2.00	0.50±0.10	200
5.0±0.4	0.25±0.04	≤2.25	0.50±0.10	100
5.5±0.4	0.25±0.04	≤2.50	0.50±0.10	100
6.0±0.4	0.25±0.04	≤2.75	0.50±0.10	100
6.5±0.4	0.28±0.04	≤3.00	0.55±0.10	100
7.0±0.3	0.28±0.04	≤3.25	0.55±0.10	100
7.5±0.3	0.28±0.04	≤3.50	0.55±0.10	100
8.5±0.5	0.28±0.04	≤4.00	0.60±0.10	100
9.5±0.5	0.30±0.05	≤4.50	0.60±0.10	100
10.5±0.5	0.30±0.05	≤5.00	0.60±0.10	100
11.5±0.5	0.30±0.05	≤5.50	0.60±0.10	100
12.5±0.5	0.30±0.05	≤6.00	0.60±0.10	100
13.5±0.5	0.35±0.06	≤6.50	0.70±0.10	100
14.5±0.5	0.35±0.06	≤7.00	0.70±0.10	100
15.5±0.5	0.40±0.08	≤7.50	0.75±0.10	100
16.5±0.5	0.40±0.08	≤8.00	0.75±0.10	100
17.5±0.5	0.40±0.08	≤8.50	0.75±0.10	100
19.0±0.7	0.40±0.08	≤9.00	0.75±0.10	100
21.0±0.7	0.40±0.08	≤10.0	0.75±0.10	100
23.0±0.7	0.40±0.08	≤11.0	0.80±0.15	100
26.0±0.7	0.50±0.10	≤12.5	0.90±0.15	50
				I Init: mm





Dual wall heat shrink tube

Non creasing air groove heat shrinkable tube





13

SBG5400 dual wall adhesive heat-shrinkable tube is made of the high quality polymer (out layer) with hot melt adhesive (inner layer). When it expose to heat source, the inner layer begin to melt and flow. When it cools down, inner layer forms an adhesion layer between the tubing and the component or wire. Provides a water-tight seal and protection for the connectors or wire.

	MSBG3 3:1 Dimensions						
As		ŀ	After Shrunl				
Part No.	supplied (D)	I.D.(I)	Wall thickness (T)	Adhesive thickness	Packing (L)		
MSBG3-032	3.2	1.0	1.0	0.40	200m/spool		
MSBG3-048	4.8	1.6	1.1	0.40	100m/spool		
MSBG3-064	6.4	2.0	1.2	0.50	100m/spool		
MSBG3-079	7.9	2.7	1.4	0.50	100m/spool		
MSBG3-095	9.5	3.2	1.4	0.50	50m/spool		
MSBG3-127	12.7	4.2	1.7	0.50			
MSBG3-015	15.0	5.0	1.8	0.60			
MSBG3-191	19.1	6.3	2.0	0.60			
MSBG3-254	25.4	8.5	2.1	0.60			
MSBG3-030	30.0	10.2	2.2	0.60			
MSBG3-039	39.0	13.5	2.4	0.60	1.22m/pcs		
MSBG3-050	50.0	17.0	2.7	0.70			
MSBG3-064	64.0	21.0	3.0	0.70			
MSBG3-075	75.0	25.0	3.2	1.0			
MSBG3-090	90.0	30.0	3.3	1.0			
MSBG3-100	100.0	34.0	3.5	1.2			
MSBG3-125	125.0	42.0	3.5	1.2			

MSBG4 4:1 Dimensions

Part No.	As supplied	After Shrunk			Packing (L)	
Fart NO.	(D)	I.D.(I)	Wall thickness (T)	Adhesive thickness	Tacking (L)	
MSBG4-004	4.0	1.0	1.0	0.4	200m/spool	
MSBG4-006	6.0	1.5	1.1	0.4	100m/spool	
MSBG4-008	8.0	2.0	1.5	0.5	50m/spool	
MSBG4-012	12.0	3.0	1.7	0.5		
MSBG4-016	16.0	4.0	2.0	0.5		
MSBG4-020	20.0	5.0	2.3	0.6	1.22m/pcs	
MSBG4-024	24.0	6.0	2.5	0.6		
MSBG4-032	32.0	8.0	2.8	0.7		
MSBG4-052	52.0	13.0	3.0	0.7		

Notes: Unit: mm

1. The part No. will be followed by BK,GR and so on to indicate the color of tube.

Special packages, sizes, colors and cutting into different length can be supplied upon requests.
 All numerical data shows the average or typical values, not including the customized sizes.

Application



Drawing



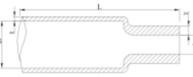
It offers insulation and water-proof protection for a wide assortment of automotive components including wire splices, wire and cable bundles, and wire harness breakout.

Technical data				
Material	Polyethylene, hot melting adhesive			
Shrink ratio	3:1 or 4:1			
Working temperature	-45℃~+125℃			
Longitudinal shrinkage	≤8%			
Color	Black			
Approval	CSA, RoHS, UL, Halogen Free			
Tool	Heat gun, oven			



JDDMA2 non creasing air groove heat shrinkable tube is made of modified high abrasion resistance polyolefin material, there is special air groove in the inner wall, the special design provide very smooth shrinkage without creasing, as well as air-tight seal when the rubber hose was bent.

Drawing



It is ideal mechanical protection of automotive water hose and other rubber hoses.

Technical data			
Material	Polyolefin		
Working temperature	-55℃~+125℃		
Shrink ratio	2:1		
Color	Black		
Approval	RoHS, Halogen Free		
Tool	Heat gun, oven		

Notes:

- 1.Special packing, sizes, colors and cutting in to different length can be supplied upon requests.
- 2.All the numerical data are the average or typical values, not including the customized sizes.
- 3.JDDMA2 39/13*, shink ratio is 3:1



JDDMA2 Dimensions					
Dantha	As supplied	After Shrunk		Packing	
Part No.	I.D. (D)	I.D. Max.(I)	W.T. (T)	(m/spool)	
20/9	20	9	0.9	100	
25/12	25	12	0.9	50	
30/15	30	15	1	50	
35/17	35	17	1.1	50	
40/20	40	20	1.2	50	
50/25	50	25	1.2	25	
60/28	60	28	1.2	25	
39/13*	39	13	1.5	50	

Physical

Aging

Electrical



Application



Unit: mm

Tensile strength	ASTM D2671	≥14Mpa
Breakdown elongation	ASTM D2671	≥450%
Tensile strength	ASTM D2671	≥12MPa
Breakdown elongation	ASTM D2671	≥350
Density	ASTM D792	1.1
Water absorption	ASTM D570	≤0.5%
Heat shock(200/4hrs)	ASTM D2671	No drop,no cracking
Low temperature flexibility	ASTM D2671	50°C/4hrs,no cracking
Hardness (Shore D)	ASTM D2671	30-40 HD
Volume resistivity	ASTM D2671	10 ¹⁵ Ω.cm
Dielectric strength	ASTM D2671	20KV/mm





Brake/Fuel line protection heat shrinkable tube



JDDMA3 brake/fuel line protection heat shrinkable tube consists of semi-rigid polyolefin outer layer and thermal melt adhesive inner wall. The feature is very flexible, low shrinkage temperature.

Application



Property	Test method	Values
Tensile strength	ASTM D2671	≥12 MPa
Breakdown elongation	ASTM D2671	≥350%
Tensile strength	ASTM D2671	≥12 MPa
Breakdown elongation	ASTM D2671	≥300%
Outer layer density	ASTM D792	1
Water absorption	ASTM D570	≪0.4%
Heat shock (200℃/4hrs)	ASTM D2671	No drop, No flow
Low temperature flexibility	ASTM D2671	-40℃/4hrs ,no cracking
Horizontal impact resistance(-35°C)	ASTM D746	No damage
Drop impact resistance(-35℃)	ASTM D746	No damage
Stress cracking resistance	ASTM D1693 part 5.3.6	No damage
Volume resistivity	ASTM D2671	≥10 ¹⁴ Ω.cm
Dielectric strength	ASTM D2671	≥15KV/mm



Drawing



It is ideal solution for the strain relief and mechanical protection of the brake/fuel line, hydraulic line which is subject to bending or clamping operations during manufacturing, installation or operation.

Technical data				
Operating temperature	-40℃~80℃			
Shrink temperature	110 ℃			
Shrink ratio	1.5:1			
Color	Black			
Approval	RoHS, Halogen Free			

JDDMA3 Dimensions					
	As supplied	Afte	After recovered		Packing
Part No.	I.D. (D)	I.D. (I)	W.T. (T)	Adhesive W.T.	(m/spool)
5.5/3.3	5.5	3.3	1	0.2	200
6.5/4.7	6.5	4.7	1	0.2	200
8.5/6.0	8.5	6	1	0.2	100
11.0/7.0	11	7	1	0.2	100
15.0/9.5	15	9.5	1	0.2	100
					Unit: mm



15

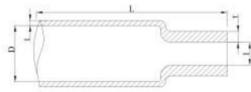
1. Special packing, sizes, colors and cutting in to different length can be supplied upon requests.

2.All the numerical data are the average or typical values, not including the customized sizes.
3.The cross reference Raychem : AP2000



JDDMA4 heat shrinkable tube is specifically designed for external protection of automotive air-conditioning pipes. It adheres to aluminum very tightly during bending operations. It provides excellent corrosion protection against stone and gravel damage, and eliminates noise and vibration.

Drawing



It is widely used for protecting A/C pipes in the automotive industry.

Technical data				
Material	PE			
Color	Black			
Operating temperature	-55℃~135℃			
Shrink temperature	125 ℃			
Shrink ratio	≥2:1			
Approval	RoHS			

Notes:

1.Special packing, sizes, colors and cutting in to different length can be supplied upon requests.

2.All the numerical data are the average or typical values, not including the customized sizes.

	0.72		The second	ALL MARKED			
	JDDMA4 Dimensions						
Dantha	As supplied	After re	covered	Packing			
Part No.	I.D. (D)	I.D.(I)	W.T.	(m/spool)			
12/6	12	6	0.8	50			
19/6	19	6	0.8	50			
19.0/7.8	19	7.8	0.8	50			
19.0/9.5	19	9.5	0.8	50			
21.0/7.8	21	7.8	0.8	50			
22.0/7.5	22	7.5	1.0	50			
22.0/12.7	22	12.7	0.7	50			
25.4/9.5	25.4	9.5	0.7	50			
26.0/7.8	26	7.8	1.0	50			
27.0/12.7	27	12.7	0.7	50			
32.0/16.0	32	16	0.9	50			
38.1/19.0	38.1	19	1.0	50			
40.0/14.0	40	14	0.9	50			
				Unit: mm			



Heat shrinkable tubing for air-conditioning pipe

Application



16



Dual wall adhesive semirigid heat shrinkable tube



The 4:1 JDDSBG(4X)GR dual wall adhesive semirigid heat shrinkable tube consists of semi-rigid polyolefin outer layer and thermal melt adhesive inner wall. The high shrink ratio allows a few sizes to cover a wide range of splice and component diameters, mechanically tough tubing provides strain relief and abrasion protection of wire splices, terminals, and other components, adhesive-lined against fluids, moisture and other contaminants. Drawing

Application



JDDSBG(4X)GR Dimensions							
Si	ze	As supplied		After red	Docking		
Inch	mm	I.D.	I.D.	W.T.	Adhesive thickness	Packing	
1/4	6	6	1.27	1.30±0.15	0.56±0.15	100/spool	
5/16	8	8	1.65	1.65±0.15	0.76±0.15	100/50001	
1/2	12	12	2.41	2.00±0.15	1.02±0.15	1.22/pcs	
3/4	18	18	4.45	2.50±0.15	1.37±0.15	1.22/pcs	

		Unit: mm			
	Hot melt adhesive property				
Property	Test Method	Test Result			
Water Absorption	ASTM D570	≪0.2%			
Softening Point	ASTM E8	96°C			
Strength of pearing (PE)	ASTM D1000	120N/25mm			
Strength of pearing (AL)	ASTM D1000	80N/25mm			

Technical Data					
Test Item	Test Method	Test Result			
Tensile strength(Mpa)	ASTM D2671	≥12			
Elongation (%)	ASTM D2671	≥300			
Tensile strength after aging (Mpa)	UL 224 158℃×168hr	≥7.3			
Elongation after aging (%)	UL 224 158℃×168hr	≥200			
Dielectric strength (kv/mm)	IEC 243	≥ 15			
Volume resistance (Ω.cm)	ASTM D876	≥ 10 ¹⁴			





It is designed for environmental sealing and electrical insulation of wire splices, termination, and components in automotive, railway, electronic and communication industry.

Technical data				
Shrink ratio	4:1			
Longitudinal shrink ratio				
Working temperature	-45℃~125℃			
Shrink temperature	120 ℃			
Color	Black			
Approval	RoHS			

Note:

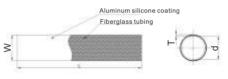
1.Special packing, sizes, colors and cutting in to different length can be supplied upon requests.

2.All the numerical data are the average or typical values, not including the customized sizes.



ASHR aluminum silicone coated fiberglass sleeving is an insulative fiberglass sleeving with heat reflective performance, it is made of braided E-glass fiber coated with silicone elastomer filled with a special aluminum reflective compound. It provides superior insulation to components that must maintain stable temperatures to assure performance efficiency.

Drawing



It is used on wire harnesses, sensor control wiring and cable assemblies in close proximity to engines and exhaust systems.

Technical data			
Material	Fiberglass, slicone		
Working temperature	-50℃~+200℃		
Flammability	FMVSS302		
Color	Silver		
Approval	RoHS		
Cutting tool	Scissor		

Part No.	I.D.	Tolerance	Wall	Packing
Part NO.	(d)	Toterance	thickness(T)	(m/spool)
ASHR-005	5.0	+0.25	0.55	200
ASHR-008	8.0	+0.25	0.65	100
ASHR-010	10	+0.50	0.75	100
ASHR-012	12	+0.50	0.75	50
ASHR-015	15	+1.00	0.75	50
ASHR-018	18	+1.00	1.00	25
ASHR-020	20	+1.00	1.50	25
ASHR-022	22	+1.00	1.50	20
ASHR-025	25	+1.00	1.50	15

Notes:

1. This sleeving has slightly expandable character, the expansion rate is 120%.

2. The customized size, special package, cut into different length can be supplied upon requests. 3.All the numerical data are average or typical values, not including customized sizes.



Aluminum silicone coated fiberglass sleeving



Application







Corrugated flexible conduit



The corrugated flexible conduit is designed for resistance to mechanical wear for rubber hose, plastic pipe and wire harness in automotive field. It provides not only mechanical protection but also anti UV radiation, weathering and chemicals. The flexible body allows for covering on the cables in the corner and elbow easily. We also supply the split style for easy installation and removal.

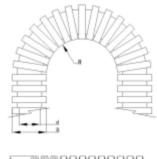
Part No.	Material	Operating range	Flammability
LGA3210RS	PA	-40℃ ~+130 ℃	FMVSS 302
LGP3300RS	PP	-30℃~+120℃	FMVSS 302

LGA3210RS & LGP3300RS Dimensions							
Size	I.D.	O.D.	Wall thickness	W	L	Bending radius	Packing (m/roll)
φ5	5.2±0.4	7.6±0.4	0.20±0.07	1.4±0.2	2.5±0.2	8	100
φ7	7.4±0.4	10.2±0.4	0.27±0.1	1.5±0.2	2.7±0.2	10	100
φ10	10.7±0.4	14.1±0.4	0.27±0.1	1.5±0.2	2.7±0.2	20	100
φ13	13.2±0.4	17.5±0.4	0.27±0.1	1.9±0.2	3.5±0.2	30	100
φ15	15.2±0.4	19.5±0.4	$0.27 {\pm} 0.1$	1.9±0.2	3.5±0.2	40	100
φ17	17.2±0.4	22.0±0.4	0.27±0.1	1.9±0.2	3.5±0.2	45	100
φ19	19.5±0.4	23.8±0.4	$0.27 {\pm} 0.1$	1.9±0.2	3.5±0.2	50	100
ф22	22.1±0.4	27.0±0.4	0.30±0.1	2.4±0.2	4.2±0.2	55	50
φ25	25.0±0.4	30.0±0.5	$0.35 {\pm} 0.1$	$2.5 {\pm} 0.2$	4.3±0.2	60	50
φ28	28.2±0.4	34.0±0.5	$0.35 {\pm} 0.1$	2.5±0.2	4.4±0.2	70	25
φ 32	32.2±0.4	38.0±0.5	$0.35 {\pm} 0.1$	2.5±0.2	4.4±0.2	80	25

Application



Drawing





It is widely used for protecting wires and cables harnesses in automotive, equipment, railway etc. It also can be used for protecting the hydraulic rubber hoses.



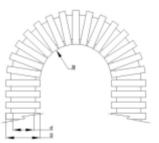
The corrugated flexible conduit is designed for resistance to mechanical wear for rubber hose, plastic pipe and wire harness in automotive field. It provides not only mechanical protection but also anti UV radiation, weathering and chemicals. The flexible body allows for covering on the cables in the corner and elbow easily. We also supply the split style for easy installation and removal.

Application



Drawing

Notes:





It is widely used for protecting wires and cables harnesses in automotive, equipment, railway etc. It also can be used for protecting the hydraulic rubber hoses.

Part No.	Material	Operating range	Flammability	
LGP3300	PP	- 30 ℃ [~] + 120 ℃	FMVSS 302	
LGE3400	PE	-40°C ~+90 °C	UL 94V-2	
LGA3210	PA	-40℃ ~+130 ℃	UL1696	

Datasheet for LGP3300, LGE3400 & LGA3210									
Size	I.D.	O.D.	Wall thickness	W	L	Bending radius	Packing		
φ 4.8	4.8±0.3	7.0±0.3	0.20±0.05	1.40±0.2	2.3±0.2	5	100		
φ5.5	5.5±0.3	8.5±0.3	0.25±0.05	1.75±0.2	2.6±0.2	8	100		
φ7.0	7.0±0.3	10.0±0.3	0.27±0.05	2.00±0.2	2.9±0.2	10	100		
ф8.5	8.5±0.3	11.0±0.3	0.30±0.05	1.80±0.2	2.8±0.2	15	100		
ф10.0	10.0±0.3	13.0±0.3	0.30±0.05	1.90±0.2	2.8±0.2	20	100		
ф12.0	12.0±0.4	15.8±0.4	0.30±0.05	2.20±0.2	3.3±0.2	30	100		
ф 14.3	14.3±0.4	18.5±0.4	0.32±0.05	2.60±0.2	3.6±0.2	40	100		
ф 17.0	17.0±0.4	21.2±0.4	0.32±0.05	2.40±0.2	3.3±0.2	45	100		
ф 21.0	21.0±0.4	25.0±0.5	0.35±0.05	2.30±0.2	3.4±0.2	50	100		
ф 23.0	23.0±0.5	28.5±0.5	0.35±0.05	2.30±0.2	3.3±0.2	55	50		
ф 29.0	29.0±0.5	34.5±0.5	0.40±0.05	2.40±0.2	3.4±0.2	60	50		
ф36.0	36±0.5	42.5±0.5	0.45±0.05	2.9±0.2	4.3±0.2	70	25		
ф 48 .0	48±0.5	54.5±0.5	0.5±0.05	3.0±0.2	4.3±0.2	80	25		

19 Notes:

1. Special colors, customized size, special package, cut into different length can be supplied upon requests.

Unit: mm

2. All numeric data shows the average or typical values, not including the customized sizes.



Corrugated flexible conduit

Unit: mm

20







