

Thin-Wall Tubing

3M™ FP-301 Thin-Wall Tubing

Shrink Ratio 2:1



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3M FP-301 is a heat shrinkable flexible polyolefin tubing that offers an outstanding balance of electrical, physical and chemical properties for a wide variety of industrial and military applications. Rated for 275°F(135°C) continuous operation. FP-301 tubing is

typically used as a shrink-fit electrical insulation over cable splices and terminations. It is also used for lightweight wire harness covering, wire marking, wire bundling, component packaging and fire resistant covering.

FP-301 clear tubing provides excellent visibility for component packing. All FP-301 tubing is split resistant, mechanically tough, easily marked and resists cold flow.

FP-301 is available in black, white, red, blue, yellow and clear in the standard lengths of 6-inch (15,2 cm) cut pieces, 48-inch (1,21 m) and small (8.5-inch core diameter) spools of 50 (15,24 m) and 100 (30,48 m) feet. Four-foot lengths of green tubing are available in sizes 1/16 inch to 1/2 inch. The Assorted Color Kit has a total of 133 pieces and contains seven colors: black, red, white, yellow, blue, green and clear (see chart below.) The Black Kit contains 102 pieces, all 6" (512,4 mm) lengths (see chart below.) Additional sizes, colors and put-ups are available—please contact your 3M Electrical Products Sales Representative.

Application Specifications: UL Recognized and CSA Certified at 600 volts at 257°F(125°C); UL File No. E-39100 and CSA No. 38227. MIL-I-23053/5, Class 1,2. AMS 3636 (Type I) and AMS 3637 (Type II).

To Order: Reference specific product size, color and description on the following pages. Example: FP-301-1/4, white 6" (15,2 cm) pieces.

Specification and Ordering Information for 3M FP-301 Assortment Kits

Description	UPC (051135-)	Case Quantity
Assorted Colors Kit	37677	5 kits
Kit Contents:	Kit Quantity:	
3/32 (2,35 mm)	35	—
1/8 (3,18 mm)	28	—
3/16 (4,75 mm)	21	—
1/4 (6,35 mm)	21	—
3/8 (9,53 mm)	14	—
1/2 (12,70 mm)	14	—
Assorted Black Kit	38139	5 kits
Kit Contents:	Kit Quantity:	
3/16 (4,8 mm)	30	—
1/4 (6,5 mm)	28	—
3/8 (9,6 mm)	20	—
1/2 (12,7 mm)	14	—
3/4 (19,1 mm)	6	—
1 (25,4 mm)	4	—

Specification and Ordering Information for 3M FP-301 Six-Inch Pieces—Tamper Evident Bags (Refills for Kits)

Product No.	Size	Color	UPC (051135-)	Description	Expanded/ Recvd. I.D.	Case Qty
FP-301	3/64" (1,19 mm)	Black Clear	36484 36485	40 pcs/bag	0.046/0.023" (1,17/0,58 mm)	10
FP-301	1/16" (1,59 mm)	Black Clear	36486 36487	38 pcs/bag	0.063/0.031" (1,6/0,79 mm)	10
FP-301	3/32" (2,4 mm)	Black Clear	36488 36489	36 pcs/bag	0.093/0.046" (2,36/1,17 mm)	10
FP-301	1/8" (3,18 mm)	Black Clear	36490 36491	34 pcs/bag	0.125/0.062" (3,18/1,57 mm)	10
FP-301	3/16" (4,77 mm)	Black Clear	36492 36493	30 pcs/bag	0.187/0.093" (4,75/2,36 mm)	10
FP-301	1/4" (6,4 mm)	Black Clear	36494 36495	26 pcs/bag	0.250/0.125" (6,35/3,18 mm)	10
FP-301	3/8" (9,55 mm)	Black Clear	36496 36497	24 pcs/bag	0.375/0.187" (9,53/4,75 mm)	10
FP-301	1/2" (12,7 mm)	Black Clear	36498 36499	20 pcs/bag	0.500/0.250" (12,7/6,35 mm)	10
FP-301	3/4" (19,0 mm)	Black Clear	36500 36501	14 pcs/bag	0.750/0.375" (19,05/9,52 mm)	10
FP-301	1" (25,4 mm)	Black Clear	36502 36503	10 pcs/bag	1.000/0.500" (25,4/12,7 mm)	10
FP-301	1-1/2" (38,1 mm)	Black Clear	36504 36505	6 pcs/bag	1.500/0.750" (38,1/19,05 mm)	10
FP-301	2" (50,8 mm)	Black Clear	36506 36507	4 pcs/bag	2.000/1.000" (50,8/25,4 mm)	10
FP-301	3" (76,0 mm)	Black Clear	36508 36509	3 pcs/bag	3.000/1.500" (76,2/38,1 mm)	10
FP-301	4" (102,0 mm)	Black Clear	36510 36511	2 pcs/bag	4.000/2.000" (101,6/50,8 mm)	10

Specification and Ordering Information for 3M FP-301 Assortment Packs of Six-Inch Lengths—Tamper Evident Bags (Refills for Kits)

Product	Size	Color	UPC (051135-)	Description	Case Qty.
FP-301	3/64–3/16" (1,19–4,77 mm)	Black	36612	6 each of 5 sizes	10
FP-301	1/4–3/4" (6,4–19,0 mm)	Black	36613	4 each of 4 sizes	10
FP-301	1–4" (25,4–102 mm)	Black	36614	2 each of 5 sizes	10
FP-301	3/32" (2,4 mm)	Assort.	36618	5 each of 7 colors	10
FP-301	1/8" (3,18 mm)	Assort.	36619	4 each of 7 colors	10
FP-301	3/16" (4,77 mm)	Assort.	36620	3 each of 7 colors	10
FP-301	1/4" (6,4 mm)	Assort.	36621	3 each of 7 colors	10
FP-301	3/8" (9,55 mm)	Assort.	36622	2 each of 7 colors	10
FP-301	1/2" (12,7 mm)	Assort.	36623	2 each of 7 colors	10

Specification and Ordering Information for
3M™ FP-301 Four-Foot Sticks (small box)

Product No.	Size	Color	UPC (051135-)		Expanded/ Recvd. I.D.	Case Qty
			Descrpt.			
FP-301	3/64" (1,17 mm)	Black	36644	48" Sticks (1,22 m)	0.046/0.023" (1,17/0,58 mm)	25
		Clear	36645			
		White	36646			
		Red	36647			
		Blue	36649			
Yellow	36648					
FP-301	1/16" (1,58 mm)	Black	36650	48" Sticks (1,22 m)	0.063/0.031" (1,6/0,79 mm)	25
		Clear	36651			
		White	36652			
		Red	36653			
		Blue	36655			
Yellow	36654					
Green	36672					
FP-301	3/32" (2,38 mm)	Black	36673	48" Sticks (1,22 m)	0.093/0.046" 2,36/1,17 mm)	25
		Clear	36674			
		White	36675			
		Red	36676			
		Blue	36678			
Yellow	36677					
Green	36679					
FP-301	1/8" (3,18 mm)	Black	36680	48" Sticks (1,22 m)	0.125/0.062" (3,18/1,57 mm)	25
		Clear	36681			
		White	36682			
		Red	36683			
		Blue	36685			
Yellow	36684					
Green	36686					
FP-301	3/16" (4,75 mm)	Black	36687	48" Sticks (1,22 m)	0.187/0.093" (4,75/2,36 mm)	25
		Clear	36688			
		White	36689			
		Red	36690			
		Blue	36692			
Yellow	36691					
Green	36693					
FP-301	1/4" (6,35 mm)	Black	36694	48" Sticks (1,22 m)	0.250/0.125" (6,35/3,18 mm)	12
		Clear	36695			
		White	36696			
		Red	36697			
		Blue	36699			
Yellow	36698					
Green	36700					
FP-301	3/8" (9,5 mm)	Black	36701	48" Sticks (1,22 m)	0.375/0.187" (9,53/4,75 mm)	12
		Clear	36702			
		White	36703			
		Red	36704			
		Blue	36706			
Yellow	36705					
Green	36707					
FP-301	1/2" (12,7 mm)	Black	36709	48" Sticks (1,22 m)	0.500/0.250" (12,7/6,35 mm)	12
		Clear	36710			
		White	36711			
		Red	36712			
		Blue	36714			
Yellow	36713					
Green	36715					
FP-301	3/4" (19,05 mm)	Black	36716	48" Sticks (1,22 m)	0.750/0.375" (19,01/9,53 mm)	12
		Clear	36720			
		White	36721			
		Red	36722			
		Blue	36724			
Yellow	36723					
Green	37764					
FP-301	1" (25,4 mm)	Black	36725	48" Sticks (1,22 m)	1.000/0.500" (25,4/12,7 mm)	5
		Clear	36726			
		White	36727			
		Red	36728			
		Blue	36730			
Yellow	36729					
Green	37767					

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Specification and Ordering Information for
3M FP-301 Four-Foot Sticks (small box)

(continued)

Product No.	Size	Color	UPC (051135-)		Expanded/ Recvd. I.D.	Case Qty
			Descrpt.			
FP-301	1-1/2" (38,1 mm)	Black	36731	48" Sticks (1,22 m)	1.500/0.750" (38,1/19,05 mm)	5
		Clear	36732			
		White	36733			
		Red	36734			
		Blue	36736			
Yellow	36735					
FP-301	2" (50,8 mm)	Black	36737	48" Sticks (1,22 m)	2.000/1.000" (50,8/25,4 mm)	5
		Clear	36738			
		White	36739			
		Red	36740			
		Blue	36742			
Yellow	36741					
FP-301	3" (76,2 mm)	Black	36743	48" Sticks (1,22 m)	3.000/1.500" (76,2/38,1 mm)	2
		Clear	36744			
FP-301	4" (101,6 mm)	Black	36745	48" Sticks (1,22 m)	4.000/2.000" (101,6/50,8 mm)	2
		Clear	36746			

Specification and Ordering Information for 3M™ FP-301 Small Spools

Product No.	Size	Color	UPC (051135-)	Expanded/ Recvd. I.D.	Case Qty	
FP-301	3/64" (1,19 mm)	Black Clear	36027** 36028**	100' Spool (30,5 m)	0.046/0.023" (1,17/0,58 mm)	300'
FP-301	1/16" (1,6 mm)	Black Clear White Red Blue Yellow Green	35550 35555 35551 35552 35553 35554 37591	100' Spool (30,5 m)	0.063/0.031" (1,6/0,79 mm)	300'
FP-301	3/32" (2,4 mm)	Black Clear White Red Blue Yellow Green	35556 35548 35557 35558 35559 35560 37592	100' Spool (30,5 m)	0.093/0.046" (2,36/1,17 mm)	300'
FP-301	1/8" (3,2 mm)	Black Clear White Red Blue Yellow Green	35562 35567 35563 35564 35565 35566 37593	100' Spool (30,5 m)	0.125/0.062" (3,18/1,57 mm)	300'
FP-301	3/16" (4,77 mm)	Black Clear White Red Blue Yellow Green	35568 35573 35569 35570 35571 35572 37594	100' Spool (30,5 m)	0.187/0.093" (4,75/2,36 mm)	300'
FP-301	1/4" (6,4 mm)	Black Clear White Red Blue Yellow Green	35574 35579 35575 35576 35577 35578 37346	100' Spool (30,5 m)	0.250/0.125" (6,35/3,18 mm)	300'
FP-301	3/8" (9,6 mm)	Black Clear White Red Blue Yellow Green	35580 35585 35581 35582 35583 35584 37643	100' Spool (30,5 m)	0.375/0.187" (9,53/4,75 mm)	300'
FP-301	1/2" (12,7 mm)	Black Clear White Red Blue Yellow Green	35586 35591 35587 35588 35589 35590 37347	100' Spool (30,5 m)	0.500/0.250" (12,7/6,35 mm)	300'
FP-301	3/4" (19,1 mm)	Black Clear White Red Blue Yellow Green	35592 35597 35593 35594 35595 35596 37348	50' Spool (15,2 m)	0.750/0.375" (19,05/9,52 mm)	150'
FP-301	1" (25,4 mm)	Black Clear White Red Blue Yellow Green	35598 35603 35599 35600 35601 35602 37768	50' Spool (15,2 m)	1.000/0.500" (25,4/12,7 mm)	150'

* UPC prefix 054007-

** UPC prefix 051138-

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Specification and Ordering Information for 3M FP-301 Small Spools (continued)

Product No.	Size	Color	UPC (054007-)	Expanded/ Recvd. I.D.	Case Qty	
FP-301	1-1/2" (38,1 mm)	Black Clear White Red Blue Yellow	36026* 36025* 08515 38860 38857 08516	50' Spool (15,2 m) 100' Spool (30,5 m)	1.500/0.750" (38,1/19,05 mm)	100' 200'
FP-301	2" (50,8 mm)	Black Clear White Red Blue Yellow	36024* 36023* 08519 08518 38870 08520	50' Spool (15,2 m) 100' Spool (30,5 m)	2.000/1.000" (50,8/25,4 mm)	100' 200'
FP-301	3" (76,2 mm)	Black Clear White Red Blue Yellow	08521 38982 08522 38881 38880 38883	50' Spool (15,2 m)	3.000/1.500" (76,2/38,1 mm)	50'
FP-301	4" (101,6 mm)	Black Clear White Red Blue Yellow	38884 38986 38894 38893 58973 38895	50' Spool (15,2 m)	3.000/1.500" (101,6/50,8 mm)	50'

* UPC prefix 051138-

Specification and Ordering Information for FP 25-Foot Reels Thin-Wall, Flexible Polyolefin

Product Number	UPC (054007-)	Expanded/ Recovered I.D.	Case Qty.
FP-063-BK-25	40058	0.063/0.031" (1,6/0,8 mm)	1
FP-093-BK-25	40059	0.093/0.046" (2,4/1,2 mm)	1
FP-125-BK-25	40060	0.125/0.062" (3,2/1,6 mm)	1
FP-187-BK-25	40061	0.187/0.093" (4,7/2,4 mm)	1
FP-250-BK-25	40062	0.250/0.125" (6,4/3,2 mm)	1
FP-375-BK-25	40063	0.375/0.187" (9,5/4,2 mm)	1
FP-500-BK-25	40064	0.500/0.250" (12,7/6,4 mm)	1
FP-750-BK-25	40065	0.750/0.375" (19,1/9,5 mm)	1
FP-1000-BK-25	40066	1.000/0.500" (25,4/12,7 mm)	1

Note: Bulk spools and 4-foot lengths are available subject to quotation. Special cut lengths are also available subject to quotation.