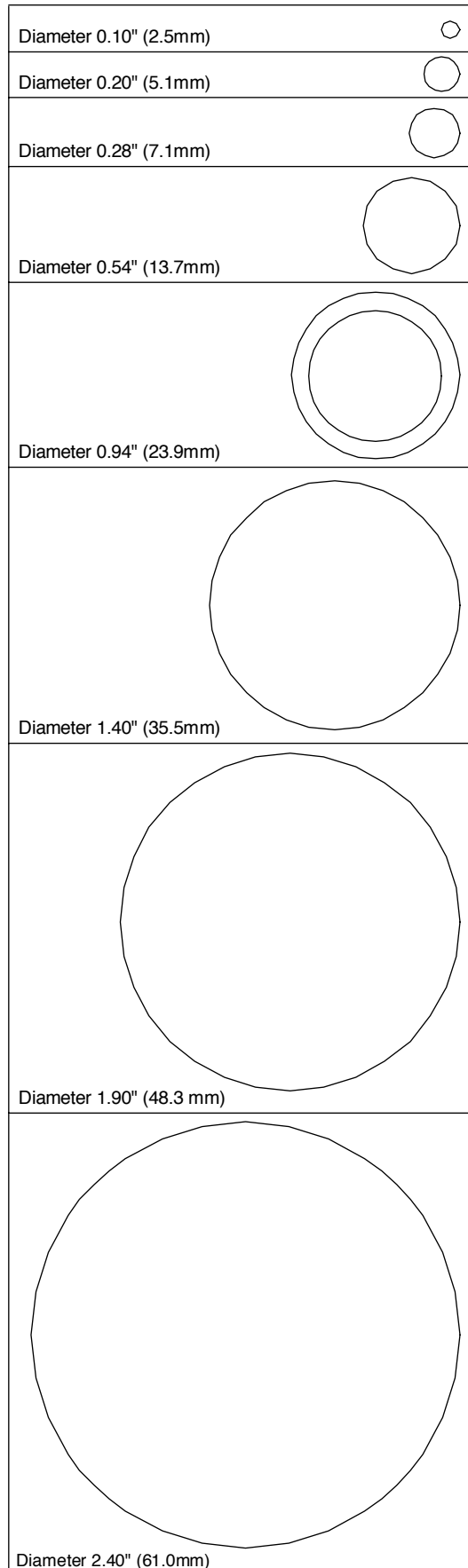


To use this guide, place your wire or cable in the appropriate circle to determine wire outside diameter.



The charts below indicate the approximate cable outside diameter of various electrical and communication cables.

## Electrical Cables

Size	Approx. Wire Outside Diameter In. (mm)			
	TF	THW	TW	TFN / THHN / THWN
18 AWG	0.11 (2.8)	0.11 (2.8)	0.11 (2.8)	0.09 (2.3)
16 AWG	0.12 (3.0)	0.12 (3.0)	0.12 (3.0)	0.10 (2.5)
14 AWG	0.13 (3.3)	0.16 (4.1)	0.16 (4.1)	0.10 (2.5)
12 AWG	0.15 (3.8)	0.18 (4.6)	0.18 (4.6)	0.12 (3.0)
10 AWG	0.17 (4.3)	0.20 (5.1)	0.20 (5.1)	0.15 (3.8)
8 AWG	0.24 (6.1)	0.28 (7.1)	0.28 (7.1)	0.22 (5.6)
6 AWG	0.32 (8.1)	0.32 (8.1)	0.32 (8.1)	0.26 (6.6)
4 AWG	0.37 (9.4)	0.37 (9.4)	0.37 (9.4)	0.33 (8.4)
3 AWG	0.40 (10.2)	0.40 (10.2)	0.40 (10.2)	0.36 (9.1)
2 AWG	0.43 (10.9)	0.43 (10.9)	0.43 (10.9)	0.39 (9.9)
1 AWG	0.51 (12.9)	0.51 (12.9)	0.51 (12.9)	0.45 (11.4)
1/0	0.55 (14.0)	0.55 (14.0)	0.55 (14.0)	0.49 (12.4)
2/0	0.59 (15.0)	0.59 (15.0)	0.59 (15.0)	0.54 (13.7)
3/0	0.65 (16.5)	0.65 (16.5)	0.65 (16.5)	0.59 (15.0)
4/0	0.70 (17.8)	0.70 (17.8)	0.70 (17.8)	0.65 (16.5)
250 MCM	0.79 (20.1)	0.79 (20.1)	0.79 (20.1)	0.72 (18.3)
300 MCM	0.84 (21.3)	0.84 (21.3)	0.84 (21.3)	0.77 (19.6)
350 MCM	0.89 (22.6)	0.89 (22.6)	0.89 (22.6)	0.82 (20.8)
400 MCM	0.94 (23.9)	0.94 (23.9)	0.94 (23.9)	0.87 (22.1)
500 MCM	1.03 (26.2)	1.03 (26.2)	1.03 (26.2)	0.95 (24.1)
600 MCM	1.14 (29.0)	1.14 (29.0)	1.14 (29.0)	1.06 (26.9)
700 MCM	1.21 (30.7)	1.21 (30.7)	1.21 (30.7)	1.13 (28.7)
750 MCM	1.25 (31.8)	1.25 (31.8)	1.25 (31.8)	1.16 (29.5)
800 MCM	1.28 (32.5)	1.28 (32.5)	1.28 (32.5)	1.20 (30.5)
900 MCM	1.34 (34.0)	1.34 (34.0)	1.34 (34.0)	1.26 (32.0)
1000 MCM	1.40 (35.6)	1.40 (35.6)	1.40 (35.6)	1.32 (33.5)
1250 MCM	1.58 (40.1)	1.58 (40.1)	1.58 (40.1)	
1500 MCM	1.70 (43.2)	1.70 (43.2)	1.70 (43.2)	
1750 MCM	1.82 (46.2)	1.82 (46.2)	1.82 (46.2)	
2000 MCM	1.92 (48.8)	1.92 (48.8)	1.92 (48.8)	

## Category 3 and Category 5 Cable

Size	Category 3	Category 5			
	Voice Grade 24 AWG UTP	Data Grade 24 AWG UTP	Data Grade 24 AWG STP	Data Grade 22 AWG UTP	Data Grade 22 AWG STP
2 Pair	0.12 (3.0)				
3 Pair	0.15 (3.8)				
4 Pair	0.19 (4.8)	0.22 (5.6)	0.25 (6.3)	0.23 (5.8)	0.29 (7.4)
25 Pair		0.42 (10.7)	0.51 (12.9)	0.54 (13.7)	0.63 (16.0)
50 Pair	0.46 (11.7)	0.66 (16.8)			
100 Pair	0.63 (16.0)	0.96 (24.4)			
300 Pair	1.07 (27.2)				

## Coaxial Cable

Size	Coax
RG58/u	0.19 (4.8)
RG59/u	0.24 (6.1)
RG62A/u	0.24 (6.1)
RG6/u	0.27 (6.8)
RG11/u	0.40 (10.2)

## Fiber Optic Distribution (62.5/125)

Size	Non-Plenum	Plenum
6 Strand	0.26 (6.6)	0.18 (4.6)
8 Strand	0.27 (6.9)	0.18 (4.6)
12 Strand	0.28 (7.1)	0.21 (5.3)
18 Strand	0.49 (12.4)	0.47 (11.9)
24 Strand	0.54 (13.7)	0.52 (13.2)
36 Strand	0.54 (13.7)	0.52 (13.2)
48 Strand	0.59 (15.0)	0.56 (14.2)
72 Strand	0.72 (18.3)	0.71 (18.0)