USEFUL REFERENCE TABLES

Tyco Electronics

CABLE CROSS SECTIONS - ANNEALED ALUMINIUM AND COPPER STRANDED CONDUCTORS

METRIC			IMPERIAL				
NOMINAL CROSS SECTIONAL AREA	NUMBER AND NOMINAL DIA. OF WIRES	NOMINAL DIA. OF CONDUCTOR	NOMINAL CROSS SECTIONAL AREA	NUMBER AND NOMINAL DIA. OF WIRES		NOMINAL CROSS SECTIONAL AREA	NOMINAL DIA. OF CONDUCTOR
mm²	mm	mm	mm²	inches	mm	inches²	mm
1	1/1.13	1.13	.97	1/.044	1/1.12	.0015	1.12
–	–	–	1.25	3/.029	3/.737	.0019	1.59
1.5	1/1.38	1.38	–	–	–	–	–
–	–	–	1.93	3/.036	3/.914	.003	1.97
2.5	7/0.67	2.01	–	–	–	–	–
–	–	–	2.93	7/.029	7/.737	.0045	2.21
4	7/0.85	2.55	–	–	–	–	–
–	–	–	4.52	7/.036	7/.914	.007	2.74
6	7/1.04	3.12	–	–	–	–	–
–	–	–	6.75	7/.044	7/1.12	.010	3.35
–	–	–	9.43	7/.052	7/1.32	.0146	3.96
10	7/1.35	4.05	–	–	–	–	–
–	–	–	14.28	7/.064	7/1.63	.0025	4.88
16	7/1.70	5.10	–	–	–	–	–
–	–	–	18.29	19/.044	19/1.12	.03	5.59
25	7/2.14	6.75	25.5	19/.052	19/1.32	.04	6.60
35	19/1.53	7.65	–	–	–	–	–
–	–	–	38.7	19/.064	19/1.63	.06	8.13
50	19/1.78	8.90	–	–	–	–	–
–	–	–	65.1	19/.083	19/2.11	.10	10.5
70	19/2.14	10.70	–	–	–	–	–
–	–	–	75.3	37/.064	37/1.63	.12	11.4
95	19/2.52	12.60	95.3	37/.072	37/1.83	.15	12.8
120	37/2.03	14.21	126.7	37/.083	37/2.11	.20	14.8
150	37/2.25	15.75	–	–	–	–	–
–	–	–	159.1	37/.093	37/2.36	.25	16.5
185	37/2.52	17.64	–	–	–	–	–
–	–	–	195.1	37/.103	37/2.62	.30	18.3
240	61/2.25	20.25	–	–	–	–	–
–	–	–	262.2	61/.093	61/2.36	.40	21.3
300	61/2.52	22.68	–	–	–	–	–
–	–	–	321.6	61/.103	61/2.62	.50	23.5
–	–	–	391.1	91/.093	91/2.36	.60	26.0
400	61/2.85	25.65	–	–	–	–	–
–	–	–	479.7	91/.103	91/2.62	.75	28.8
500	61/3.20	28.80	–	–	–	–	–
630	127/2.52	32.76	–	–	–	–	–
–	–	–	669.4	127/.103	127/2.62	1.00	34.0
800	127/2.85	37.05	800.00	127/.112	127/2.84	1.24	36.92
1000	127/3.20	41.60	1000.0	127/.125	127/3.18	1.50	41.34

OVERHEAD CONDUCTORS

AAC				AAAC (1120)				AAAC (6201A)				ACSR			
CODE	STRAND AL	O.D. mm	AREA mm²	CODE	STRAND AL	O.D. mm	AREA mm²	CODE	STRAND AL	O.D. mm	AREA mm²	CODE	STRAND AL	O.D. mm	AREA mm²
Gemini	7/1.75	5.25	16.8	**Argon**	7/1.75	5.25	16.8	**Agate**	7/1.75	5.25	16.8	**Quince***	3/4/1.75	5.25	16.8
Jupiter	7/2.25	6.75	27.8	**Boron**	7/2.25	6.75	27.8	**Amethyst**	7/2.25	6.75	27.8				
Leo	7/2.50	7.50	34.4	**Chlorine**	7/2.50	7.50	34.4	**Diamond**	7/2.50	7.50	34.4	**Almond**	6/1/2.50	7.50	34.4
												Raisin*	3/4/2.50	7.50	34.4
Leonids	7/2.75	8.25	41.6	**Chronium**	7/2.75	8.25	41.6	**Dolomite**	7/2.75	8.25	41.6				
Libra	7/3.00	9.00	49.5	**Fluorine**	7/3.00	9.00	49.5	**Emerald**	7/3.00	9.00	49.5	**Apple**	6/1/3.00	9.00	49.5
												Sultana*	4/3/3.00	9.00	49.5
Mars	7/3.75	11.25	77.3	**Helium**	7/3.75	11.25	77.3	**Garnet**	7/3.75	11.25	77.3	**Banana**	6/1/3.75	11.25	77.3
												Walnut*	4/3/3.75	11.25	77.3
Mercury	7/4.50	13.50	111.3	**Hydrogen**	7/4.50	13.50	111.3	**Jade**	7/4.50	13.50	111.3				
Moon	7/4.75	14.25	124.0	**Iodine**	7/4.75	14.25	124.0	**Jasper**	7/4.75	14.25	124.0				
												Cherry	6/4.75	14.30	120.4
Neptune	19/3.25	16.25	157.6	**Krypton**	19/3.25	16.25	157.6	**Opal**	19/3.25	16.25	157.6				
Orion	19/3.50	17.50	182.8	**Lutetium**	19/3.50	17.50	182.50	**Patronite**	19/3.50	17.50	182.50	**Grape**	30/7/2.50	17.50	181.6
Pluto	19/3.75	18.75	209.8	**Neon**	19/3.75	18.75	209.8	**Pearl**	19/3.75	18.75	209.8				
Saturn	37/3.00	21.00	261.5	**Nitrogen**	37/3.00	21.00	261.5	**Ruby**	37/3.00	21.00	261.5	**Lemon**	30/7/3.00	21.00	261.5
Sirius	37/3.25	22.75	306.9	**Nobelium**	37/3.25	22.75	306.9	**Ruthenium**	37/3.25	22.75	306.9				
Taurus	19/4.75	23.75	336.7	**Oxygen**	19/4.75	23.75	336.7	**Rutile**	19/4.75	23.75	336.7				
												Lime	30/7/3.50	24.50	356.0
Triton	37/3.75	26.25	408.6	**Phosphorus**	37/3.75	26.25	408.6	**Sapphire**	37/3.75	26.25	408.6				
												Mango	54/7/3.00	27.00	431.2
Uranus	61/3.25	29.25	506.4	**Selenium**	61/3.25	29.25	506.4	**Spinel**	61/3.25	29.5	506.4	**Orange**	54/7/3.25	29.25	506.4
Ursula	61/3.50	31.50	586.9	**Silicon**	61/3.50	31.50	586.9	**Tantalum**	61/3.50	31.50	586.9	**Olive**	54/7/3.50	31.50	586.9
Venus	61/3.75	33.75	673.7	**Sulphur**	61/3.75	33.75	673.7	**Topaz**	61/3.75	33.75	673.7	**Paw Paw**	54/3.75	33.75	672.0
												Peach	54/4.75	42.75	1078.0
Virgo	91/4.50	49.50	1447.0	**Xenon**	91/4.50	49.50	1447.0	**Zircon**	91/4.50	49.50	1447.0				

STRANDED HARD DRAWN COPPER CONDUCTOR SIZES - METRIC AND IMPERIAL

METRIC			IMPERIAL		
CODE NAME	CONDUCTOR O.D.		CODE NAME	CONDUCTOR O.D.	
	mm	inches		mm	inches
7/1.00	3.00	.118	**7/036**	2.7	.108
7/1.25	3.75	.148	**7/048**	3.7	.144
7/1.75	5.25	.207	**7/064**	4.9	.192
7/2.0	6.00	.236	**7/080**	6.1	.240
7/2.75	8.25	.325	**19/064**	8.1	.320
19/1.75	8.75	.345	**7/118**	9.0	.354
19/2.0	10.0	.394	**7/136**	10.3	.408
7/3.50	10.5	.413	**19/083**	10.5	.415
37/1.75	12.25	.484	**37/072**	12.8	.504
19/2.75	13.75	.541	**-**	-	-
19/3.00	15.0	.591	**19/116**	14.7	.580
37/2.50	17.5	.689	**37/093**	16.5	.651
37/2.75	19.25	.758	**37/103**	18.3	.721
37/3.00	21.0	.827	**37/118**	21.0	.826
61/2.75	24.75	.974	**91/093**	26.0	1.023