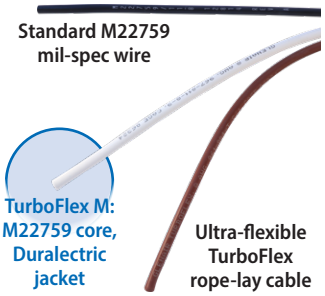
ULTRA-FLEXIBLE

TurboFlex Rugged Power Cable

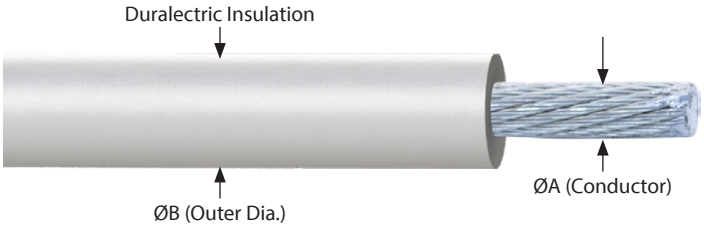
TurboFlex® M SAE AS22759-type conductor, Duralectric™ D Insulation, 725–2875 VAC 967-600

FEATURES

- TurboFlex M, with mil-spec conductor per AS29606 provides flight heritage and the stiffness required in some installations, while Duralectric D Insulation provides more flexibility than standard mil-spec wire. 725–2875 VAC, 2450–6750 VDC-rated performance.



HOW TO ORDER TURBOFLEX® M					
Sample Part Number	**967-600**	**-28**	**SCA**	**-016**	**-0**
Basic No.	**TurboFlex M** = AS22759 type conductor with Duralectric D Insulation				
Wire Conductor Size (See Tables)	**-28, -26, -24, -22, -20, -18, -16, -14, -12, -10, -8, -6, -4, -2, -1, -0, -00, -000, -0000**				
Conductor Type (See Tables for Specifications, Resistance Values, and Conductor Diameter)	**NCC** = Nickel-Coated Annealed Copper (-60° – 200°C) **SCC** = Silver-Coated Annealed Copper (-60° – 200°C) **TCC** = Tin-Coated Annealed Copper (-60° – 150°C)				
Duralectric D Insulation Thickness (See Tables)	**-016** = .016 **-032** = .032 **-062** = .062 **-093** = .093 **-125** = .125				
Duralectric D Insulation Color	See Table II				



NOTES

1. Cable will be marked with "GLENAIR TURBOFLEX M", wire gauge, part number, CAGE 06324.
2. Conductors per AS29606
3. Bend radius (reference only) 3X O.D.
4. Designed to meet all test requirements of M16878/7, M16878/8, NEMA HB6 Type ZHS and ZHSS

Table II: Duralectric D Insulation Color	
Weatherproof, halogen free, flame resistant	
0	Black
1	Brown
2	Red
3	Orange
4	Yellow
5	Kelly Green
6	Blue
7	Violet
8	Gray
9	White
Consult factory for other specific colors	

VOLTAGE RATING / INSULATION RESISTANCE					
Wall (in.)	.016 wall	.032 wall	.062 wall	.093 wall	.125 wall
IR Test Voltage (VDC)	1000	1500	2000	2500	3000
Voltage Rating (VAC)	725	1125	1750	2300	2875
DWV (VAC)	2450	3250	4500	5600	6750
Wire Size AWG	Insulation Resistance (Megohms / 1000 ft.)				
28	2100	N/A	N/A	N/A	N/A
26	1800	N/A	N/A	N/A	N/A
24	1500	2300	N/A	N/A	N/A
22	1300	2100	N/A	N/A	N/A
20	1100	1800	N/A	N/A	N/A
18	1000	1500	N/A	N/A	N/A
16	900	1500	N/A	N/A	N/A
14	800	1200	N/A	N/A	N/A
12	600	1000	N/A	N/A	N/A
10	500	900	1400	N/A	N/A
8	400	700	1100	N/A	N/A
6	N/A	600	900	N/A	N/A
4	N/A	500	800	1000	1200
2	N/A	400	600	900	1100
1	N/A	400	600	800	1000
0	N/A	400	600	700	900
00	N/A	300	500	700	800
000	N/A	N/A	500	600	800
0000	N/A	N/A	400	600	700

TYPICAL CURRENT RANGE															
Tin Copper						Nickel/Silver Copper									
AWG	Amps	AWG	Amps	AWG	Amps	AWG	Amps	AWG	Amps	AWG	Amps	AWG	Amps	AWG	Amps
28	0-1.5	**20**	10-20	**12**	30-60	**28**	0-1.5	**18**	15-30	**8**	55-135	**0**	195-465		
26	5-9	**18**	15-30	**10**	40-75	**26**	5-10	**16**	15-35	**6**	75-185	**00**	225-540		
24	6-12	**16**	15-30	**8**	55-115	**24**	6-14	**14**	20-50	**4**	105-250	**3/0**	260-640		
22	8-15	**14**	20-45			**22**	8-18	**12**	30-70	**2**	145-345	**4/0**	310-755		
						20	10-25	**10**	40-90	**1**	170-400				

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Dimensions in Inches (millimeters) are subject to change without notice.

TurboFlex® M SAE AS22759-type conductor, Duralectric™ D Insulation, 725–2875 VAC 967-600

TCC TIN-COATED ANNEALED COPPER CONDUCTOR

TCC WIRE SPECIFICATIONS												
Wire Size AWG	No. Strands X AWG	Circular Mils Nominal	Ø B (Inches)					Max Weight (Lbs/1000 Ft)				
			0.016 Wall	0.032 Wall	0.062 Wall	0.093 Wall	0.125 Wall	.016 Wall	.032 Wall	.062 Wall	.093 Wall	.125 Wall
28	7 X 36	175	0.047 ± .003	N/A	N/A	N/A	N/A	1.6	N/A	N/A	N/A	N/A
26	19 X 38	304	0.051 ± .003	N/A	N/A	N/A	N/A	2.1	N/A	N/A	N/A	N/A
24	19 X 36	475	0.055 ± .003	0.087 ± .003	N/A	N/A	N/A	2.8	4.9	N/A	N/A	N/A
22	19 X 34	754	0.061 ± .003	0.093 ± .003	N/A	N/A	N/A	3.8	6.1	N/A	N/A	N/A
20	19 X 32	1216	0.069 ± .003	0.101 ± .003	N/A	N/A	N/A	5.5	8.0	N/A	N/A	N/A
18	19 X 30	1900	0.079 ± .003	0.111 ± .003	N/A	N/A	N/A	7.9	10.8	N/A	N/A	N/A
16	19 X 29	2426	0.088 ± .003	0.119 ± .003	N/A	N/A	N/A	10.0	13.0	N/A	N/A	N/A
14	19 X 27	3831	0.100 ± .003	0.131 ± .003	N/A	N/A	N/A	14.2	17.5	N/A	N/A	N/A
12	37 X 28	5874	0.118 ± .003	0.150 ± .003	N/A	N/A	N/A	21.5	25.4	N/A	N/A	N/A
10	37 X 26	9354	0.143 ± .005	0.175 ± .005	0.235 ± .005	N/A	N/A	33.8	38.6	50.0	N/A	N/A
8	133 X 29	16983	0.198 ± .006	0.230 ± .006	0.290 ± .006	N/A	N/A	61.5	67.9	82.3	N/A	N/A
6	133 X 27	26818	N/A	0.282 ± .006	0.341 ± .006	N/A	N/A	N/A	103.3	120.2	N/A	N/A
4	133 X 25	42615	N/A	0.333 ± .006	0.393 ± .006	0.455 ± .006	0.519 ± .006	N/A	157.0	177.0	201.2	229.7
2	665 X 30	66500	N/A	0.407 ± .007	0.466 ± .007	0.528 ± .007	0.592 ± .007	N/A	249.8	273.4	301.7	334.5
1	817 X 30	81700	N/A	0.457 ± .007	0.507 ± .007	0.565 ± .007	0.632 ± .007	N/A	318.8	340.9	369.4	406.1
0	1045 X 30	104500	N/A	0.493 ± .007	0.552 ± .007	0.617 ± .007	0.678 ± .007	N/A	379.7	408.0	442.8	478.9
00	1330 X 30	133000	N/A	0.543 ± .008	0.603 ± .008	0.665 ± .008	0.729 ± .008	N/A	469.0	500.6	536.6	577.4
000	1665 X 30	166500	N/A	N/A	0.668 ± .008	0.730 ± .008	0.794 ± .008	N/A	N/A	611.6	651.3	695.9
0000	2109 X 30	210900	N/A	N/A	0.733 ± .008	0.795 ± .008	0.859 ± .008	N/A	N/A	756.0	799.3	847.7

TCC WIRE RESISTANCE / CONDUCTOR DIA.		
Wire Size AWG	Resistance at 20°C (68°F) (Ohms/1000 Ft) Max	Ø A (Inches) Nominal
28	68.6	0.015
26	41.3	0.019
24	26.2	0.024
22	16.2	0.030
20	9.88	0.038
18	6.23	0.047
16	4.81	0.053

TCC WIRE RESISTANCE / CONDUCTOR DIA.		
Wire Size AWG	Resistance at 20°C (68°F) (Ohms/1000 Ft) Max	Ø A (Inches) Nominal
14	3.06	0.066
12	2.02	0.085
10	1.26	0.107
8	0.701	0.161
6	0.418	0.209
4	0.264	0.261
2	0.170	0.333

TCC WIRE RESISTANCE / CONDUCTOR DIA.		
Wire Size AWG	Resistance at 20°C (68°F) (Ohms/1000 Ft) Max	Ø A (Inches) Nominal
1	0.149	0.370
0	0.116	0.413
00	0.091	0.467
000	0.071	0.520
0000	0.056	0.585

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TurboFlex® M SAE AS22759-type conductor, Duralectric™ D Insulation, 725-2875 VAC 967-600

NCC NICKEL-COATED ANNEALED COPPER CONDUCTOR

NCC WIRE SPECIFICATIONS												
Wire Size AWG	No. Strands X AWG	Circular Mils Nom.	Ø B in. (mm)					Max Weight (lbs/1000 ft)				
			.016 wall	.032 wall	.062 wall	.093 wall	.125 wall	.016 wall	.032 wall	.062 wall	.093 wall	.125 wall
28	7 X 36	175	.047 ±.003 (1.19 ±.08)	N/A	N/A	N/A	N/A	1.6	N/A	N/A	N/A	N/A
26	19 X 38	304	.051 ±.003 (1.30 ±.08)	N/A	N/A	N/A	N/A	2.1	N/A	N/A	N/A	N/A
24	19 X 36	475	.055 ±.003 (1.40 ±.08)	.087 ±.003 (2.21 ±.08)	N/A	N/A	N/A	2.8	4.9	N/A	N/A	N/A
22	19 X 34	754	.061 ±.003 (1.55 ±.08)	.093 ±.003 (2.36 ±.08)	N/A	N/A	N/A	3.8	6.1	N/A	N/A	N/A
20	19 X 32	1216	.069 ±.003 (1.75 ±.08)	.101 ±.003 (2.57 ±.08)	N/A	N/A	N/A	5.5	8.0	N/A	N/A	N/A
18	19 X 30	1900	.079 ±.003 (2.01 ±.08)	.111 ±.003 (2.82 ±.08)	N/A	N/A	N/A	7.9	10.8	N/A	N/A	N/A
16	19 X 29	2426	.088 ±.003 (2.24 ±.08)	.119 ±.003 (3.02 ±.08)	N/A	N/A	N/A	10.0	13.0	N/A	N/A	N/A
14	19 X 27	3831	.100 ±.003 (2.54 ±.08)	.131 ±.003 (3.33 ±.08)	N/A	N/A	N/A	14.2	17.5	N/A	N/A	N/A
12	37 X 28	5874	.118 ±.003 (3.00 ±.08)	.150 ±.003 (3.81 ±.08)	N/A	N/A	N/A	21.5	25.4	N/A	N/A	N/A
10	37 X 26	9354	.143 ±.005 (3.63 ±.13)	.175 ±.005 (4.44 ±.13)	.235 ±.005 (5.97 ±.13)	N/A	N/A	33.8	38.6	50.0	N/A	N/A
8	133 X 29	16983	.198 ±.006 (5.03 ±.15)	.230 ±.006 (5.84 ±.15)	.290 ±.006 (7.37 ±.15)	N/A	N/A	61.5	67.9	82.3	N/A	N/A
6	133 X 27	26818	N/A	.282 ±.006 (7.16 ±.15)	.341 ±.006 (8.66 ±.15)	N/A	N/A	N/A	103.3	120.2	N/A	N/A
4	133 X 25	42615	N/A	.333 ±.006 (8.46 ±.15)	.393 ±.006 (9.98 ±.15)	.455 ±.006 (11.56 ±.15)	.519 ±.006 (13.18 ±.15)	N/A	157.0	177.0	201.2	229.7
2	665 X 30	66500	N/A	.407 ±.007 (10.34 ±.18)	.466 ±.007 (11.84 ±.18)	.528 ±.007 (13.41 ±.18)	.592 ±.007 (15.04 ±.18)	N/A	249.8	273.4	301.7	334.5
1	817 X 30	81700	N/A	.457 ±.007 (11.61 ±.18)	.507 ±.007 (12.88 ±.18)	.565 ±.007 (14.35 ±.18)	.632 ±.007 (16.05 ±.18)	N/A	318.8	340.9	369.4	406.1
0	1045 X 30	104500	N/A	.493 ±.007 (12.52±.18)	.552 ±.007 (14.02 ±.18)	.617 ±.007 (15.67 ±.18)	.678 ±.007 (17.22 ±.18)	N/A	379.7	408.0	442.8	478.9
00	1330 X 30	133000	N/A	.543 ±.008 (13.79 ±.20)	.603 ±.008 (15.32 ±.20)	.665 ±.008 (16.89 ±.20)	.729 ±.008 (18.52 ±.20)	N/A	469.0	500.6	536.6	577.4
000	1665 X 30	166500	N/A	N/A	.668 ±.008 (16.97 ±.20)	.730 ±.008 (18.54 ±.20)	.794 ±.008 (20.17 ±.20)	N/A	N/A	611.6	651.3	695.9
0000	2109 X 30	210900	N/A	N/A	.733 ±.008 (18.62 ±.20)	.795 ±.008 (20.19 ±.20)	.859 ±.008 (21.82 ±.20)	N/A	N/A	756.0	799.3	847.7

NCC WIRE RESISTANCE / CONDUCTOR DIA.			NCC WIRE RESISTANCE / CONDUCTOR DIA.			NCC WIRE RESISTANCE / CONDUCTOR DIA.		
Wire Size AWG	DC Resistance @ 20°C (Ohms/1000 ft.)	Ø A nom.	Wire Size AWG	DC Resistance @ 20°C (Ohms/1000 ft.)	Ø A nom.	Wire Size AWG	DC Resistance @ 20°C (Ohms/1000 ft.)	Ø A nom.
28	67.9	.015 (0.38)	14	3.0	.067 (1.70)	2	0.177	.333 (8.46)
26	42.2	.019 (0.48)	12	1.98	.085 (2.16)	1	0.144	.370 (9.40)
24	25.9	.024 (0.61)	10	1.24	.107 (2.72)	0	0.113	.413 (10.49)
22	16.0	.030 (0.76)	8	0.694	.161 (4.09)	00	0.089	.467 (11.86)
20	9.77	.038 (0.97)	6	0.436	.209 (5.31)	000	0.071	.520 (13.21)
18	6.1	.047 (1.19)	4	0.275	.261 (6.63)	0000	0.056	.585 (14.86)
16	4.76	.053 (1.35)						

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TurboFlex® M SAE AS22759-type conductor, Duralectric™ D Insulation, 725–2875 VAC 967-600

SCC SILVER-COATED ANNEALED COPPER CONDUCTOR

SCC WIRE SPECIFICATIONS								
Wire Size AWG	No. Strands X AWG	Circular Mils Nom.	Ø B in. (mm)			Max Weight (lbs/1000 ft)		
			.016 wall	.032 wall	.062 wall	.016 wall	.032 wall	.062 wall
28	7 X 36	175	.047 ±.003 (1.19 ±.08)	N/A	N/A	1.6	N/A	N/A
26	19 X 38	304	.051 ±.003 (1.30 ±.08)	N/A	N/A	2.1	N/A	N/A
24	19 X 36	475	.055 ±.003 (1.40 ±.08)	.087 ±.003 (2.21 ±.08)	N/A	2.8	4.9	N/A
22	19 X 34	754	.061 ±.003 (1.55 ±.08)	.093 ±.003 (2.36 ±.08)	N/A	3.8	6.1	N/A
20	19 X 32	1216	.069 ±.003 (1.75 ±.08)	.101 ±.003 (2.57 ±.08)	N/A	5.5	8.0	N/A
18	19 X 30	1900	.079 ±.003 (2.01 ±.08)	.111 ±.003 (2.82 ±.08)	N/A	7.9	10.8	N/A
16	19 X 29	2426	.088 ±.003 (2.24 ±.08)	.119 ±.003 (3.02 ±.08)	N/A	10.0	13.0	N/A
14	19 X 27	3831	.100 ±.003 (2.54 ±.08)	.131 ±.003 (3.33 ±.08)	N/A	14.2	17.5	N/A
12	37 X 28	5874	.118 ±.003 (3.00 ±.08)	.150 ±.003 (3.81 ±.08)	N/A	21.5	25.4	N/A
10	37 X 26	9354	.143 ±.005 (3.63 ±.13)	.175 ±.005 (4.44 ±.13)	.235 ±.005 (5.97 ±.13)	33.8	38.6	50.0
8	133 X 29	16983	.198 ±.006 (5.03 ±.15)	.230 ±.006 (5.84 ±.15)	.290 ±.006 (7.37 ±.15)	61.5	67.9	82.3

SCC WIRE RESISTANCE / CONDUCTOR DIA.			SCC WIRE RESISTANCE / CONDUCTOR DIA.			SCC WIRE RESISTANCE / CONDUCTOR DIA.		
Wire Size AWG	DC Resistance @ 20°C (Ohms/1000 ft.)	Ø A nom.	Wire Size AWG	DC Resistance @ 20°C (Ohms/1000 ft.)	Ø A nom.	Wire Size AWG	DC Resistance @ 20°C (Ohms/1000 ft.)	Ø A nom.
28	63.8	.014 (0.36)	20	9.19	.038 (0.97)	12	1.90	.086 (2.18)
26	38.4	.019 (0.48)	18	5.79	.047 (1.19)	10	1.19	.108 (2.74)
24	24.3	.024 (0.61)	16	4.52	.053 (1.35)	8	.658	.161 (4.09)
22	15.1	.030 (0.76)	14	2.88	.066 (1.68)			

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