

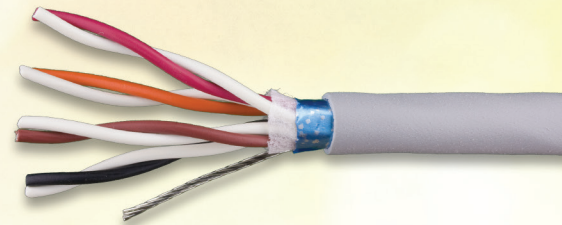
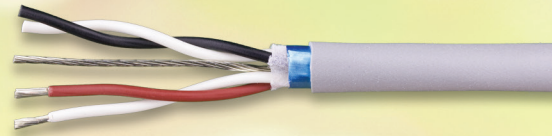


THE DATASHEET OF
78138 SL199



EcoCable® Mini

Small Just Got Mini



AlphaWire

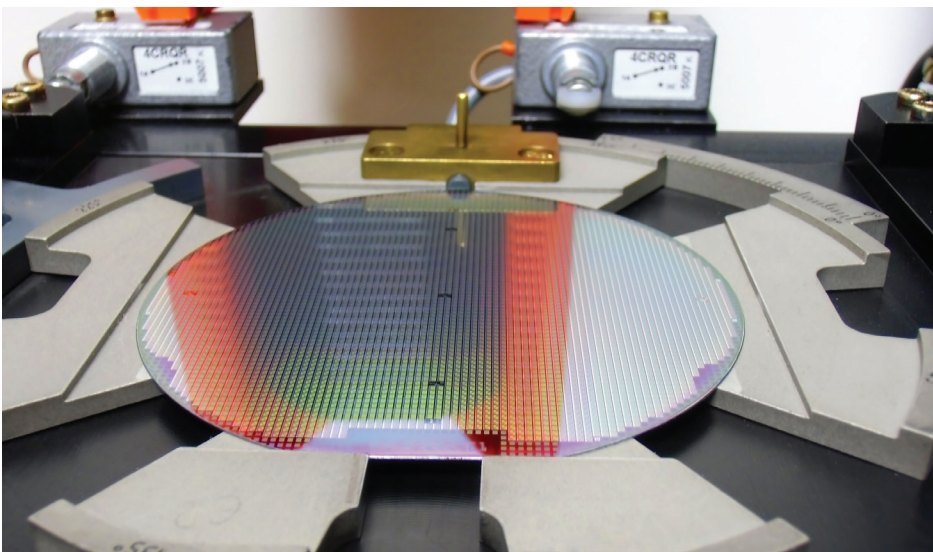
Cables you trust. Service you deserve.

EcoCable® Mini Cable

The Smallest Solution to Your Biggest Cable Problems



Small just got mini. Introducing EcoCable Mini. Our newest, completely recyclable high-performance cable is also our smallest and lightest to date. The latest addition to our EcoGen™ family of recyclable wire and cable, EcoCable Mini is small, but the performance advantages are big! It has all the benefits of our regular EcoCable line, like low specific gravity, low outgassing, and zero halogens. But it's also up to 32% smaller and 44% lighter than standard 300 V PVC cable.



Small Just got Mini

EcoCable Mini recyclable cable was developed in response to our customers' need for smaller, lighter 300 V cable.

By combining better performance and minimum environmental impact, EcoCable Mini uses its mPPE insulation and jacketing to provide application advantages in a smaller, lighter cable.

Its size makes routing and installation even easier, saving more time during production and maintenance. Even more convenient, it is available in over 250 standard configurations including four shielding options.

Smaller Size, Lower Weight

Design smaller, lighter devices with EcoCable Mini. Up to 32% smaller and 44% lighter than standard PVC cable, EcoCable Mini uses finely stranded conductors for remarkable flexibility, giving you more options for fast, easy routing. And the thin-wall insulation and jackets give you the most efficient use of constrained spaces.

Low Outgassing

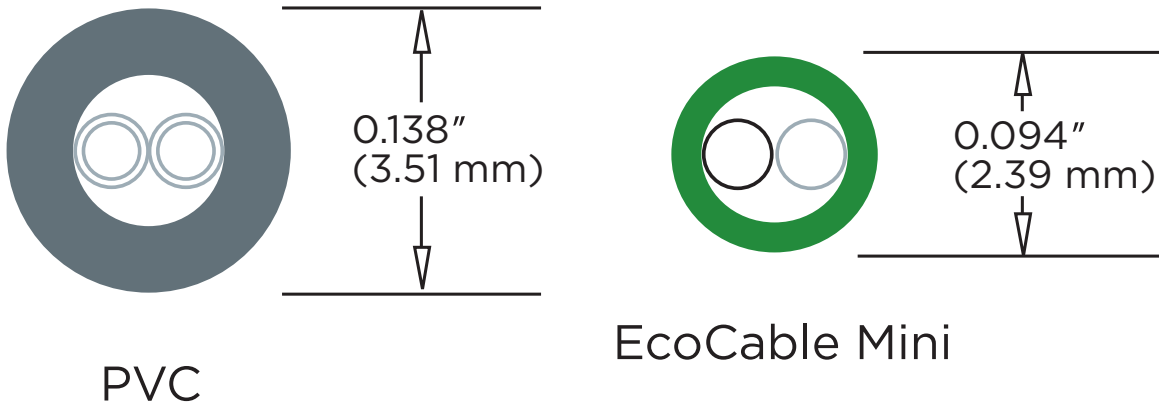
In applications like medical devices and semiconductor manufacturing equipment, low outgassing is critical in preventing corrosion, contamination, and premature component failure.

EcoCable Mini cable gives you the advantage of up to 92% lower outgassing than PVC control cable. Low outgassing makes it well suited for cleanrooms, where an extremely low particle count is required to lessen the possibility of failure due to contamination.

More Application Options

EcoCable Mini is a 300 V cable that's ideal for power and signal transmission applications in medical devices, semiconductor manufacturing equipment, and anywhere you are trying to take size and weight out of your design.

Size Comparison: 28 AWG, 2 conductor unshielded cable



It's also available in custom and composite configurations, so finding the right EcoCable Mini cable for your application is easier than ever.

Take Advantage of all the Advantages

- Up to 32% smaller and 44% lighter than PVC
- 92% lower outgassing than PVC
- 28 to 20 AWG

- 100% recyclable mPPE insulation and jacketing
- Contains no halogens, phthalates, or heavy metals
- Meets RoHS and WEEE requirements

Superior Availability

- Available from stock in most sizes and constructions
- Put-ups as small as 100'
- Same day shipment, next day delivery



Alpha Wire's next generation of eco-friendly, high-performance wire and cable, designed to provide better performance in a smaller package.

- EcoCable®
- EcoWire®
- EcoFlex® Cable
- EcoWire® Plus
- EcoCable® Mini

Learn more about the new EcoGen family of products at www.alphawire.com/EcoGen



Specifications

Configurations

- Multiconductor or multipair
- Unshielded, foil shielded, individually shielded pairs + overall foil shield, and Supra-Shield Foil + Braid
- Custom and composite configurations available

Materials

- Conductors: Tinned copper
- Insulation: mPPE
- Shielding: Foil
- Jacket: mPPE

Temperature Range

- -40°C to +80°C

Voltage Rating

- 300 V

Properties

- Zero halogen
- Specific gravity: 1.03
- 100% recyclable
- Low outgassing

Approvals

- UL AWM 21460
- CE
- CSA I A/B FT1
- RoHS
- REACH
- WEEE
- Suitable for use in NFPA 79 applications
- Meets UL VW-1 Flame Rating

Availability

- 100 ft (30.5 m) and 1000 ft (305 m) lengths
- Bulk

EcoCable Mini Cable



Unshielded Multiconductor

28 AWG (0.0925 mm²)

Stranding: 19/40 (19 x 0.079 mm)
Insulation thickness: 0.007 (0.18 mm)
Jacket thickness: 0.015 (0.38 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
78002	2	0.094	2.39
78003	3	0.099	2.51
78004	4	0.107	2.72
78006	6	0.124	3.15
78008	8	0.134	3.40

26 AWG (0.154 mm²)

Stranding: 19/38 (19 x 0.102 mm)
Insulation thickness: 0.007 (0.18 mm)
Jacket thickness: 0.015 (0.38 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
78012	2	0.102	2.59
78013	3	0.107	2.72
78014	4	0.116	2.95
78016	6	0.136	3.45
78018	8	0.147	3.73
78020	10	0.170	4.32
78021	15	0.190	4.83

24 AWG (0.241 mm²)

Stranding: 19/36 (19 x 0.127 mm)
Insulation thickness: 0.007 (0.18 mm)
Jacket thickness: 0.015 (0.38 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
78022	2	0.112	2.84
78023	3	0.118	3.00
78024	4	0.128	3.25
78026	6	0.152	3.86
78028	8	0.164	4.17
78030	10	0.190	4.83
78031	15	0.213	5.41
78403	20	0.238	6.05
78433	25	0.268	6.81

22 AWG (0.382 mm²)

Stranding: 19/34 (19 x 0.16 mm)
Insulation thickness: 0.007 (0.18 mm)
Jacket thickness: 0.015 (0.38 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
78032	2	0.126	3.20
78033	3	0.133	3.38
78034	4	0.145	3.68
78036	6	0.173	4.39
78038	8	0.187	4.75
78040	10	0.218	5.54
78041	15	0.245	6.22
78404	20	0.275	6.98
78434	25	0.310	7.87

20 AWG (0.616 mm²)

Stranding: 19/32 (19 x 0.203 mm)
Insulation thickness: 0.007 (0.18 mm)
Jacket thickness: 0.015 (0.38 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
78042	2	0.142	3.61
78043	3	0.150	3.81
78044	4	0.165	4.19
78046	6	0.197	5.00
78048	8	0.214	5.44
78050	10	0.250	6.35
78055	15	0.282	7.16
78405	20	0.317	8.05
78435	25	0.358	9.09

EcoCable Mini Cable



Unshielded Pairs

28 AWG (0.0925 mm²)

Stranding: 19/40 (19 x 0.079 mm)
Insulation thickness: 0.007 (0.18 mm)
Jacket thickness: 0.015 (0.38 mm)

Part Number	Pairs	Nominal Diameter	
		Inch	mm
78052	2	0.132	3.35
78053	3	0.140	3.56
78054	4	0.153	3.89
78005	5	0.167	4.24
78056	6	0.182	4.62
78058	8	0.198	5.03
78009	9	0.213	5.41

26 AWG (0.154 mm²)

Stranding: 19/38 (19 x 0.102 mm)
Insulation thickness: 0.007 (0.18 mm)
Jacket thickness: 0.015 (0.38 mm)

Part Number	Pairs	Nominal Diameter	
		Inch	mm
78062	2	0.146	3.71
78063	3	0.154	3.91
78064	4	0.169	4.29
78015	5	0.185	4.70
78066	6	0.202	5.13
78068	8	0.219	5.56
78019	9	0.237	6.02

24 AWG (0.241 mm²)

Stranding: 19/36 (19 x 0.127 mm)
Insulation thickness: 0.007 (0.18 mm)
Jacket thickness: 0.015 (0.38 mm)

Part Number	Pairs	Nominal Diameter	
		Inch	mm
78072	2	0.162	4.11
78073	3	0.172	4.37
78074	4	0.189	4.80
78025	5	0.207	5.26
78076	6	0.227	5.77
78078	8	0.247	6.27
78029	9	0.267	6.78
78408	20	0.369	9.37
78438	25	0.418	10.62

22 AWG (0.382 mm²)

Stranding: 19/34 (19 x 0.16 mm)
Insulation thickness: 0.007 (0.18 mm)
Jacket thickness: 0.015 (0.38 mm)

Part Number	Pairs	Nominal Diameter	
		Inch	mm
78082	2	0.185	4.70
78083	3	0.197	5.00
78084	4	0.217	5.51
78035	5	0.239	6.07
78086	6	0.261	6.63
78088	8	0.285	7.24
78039	9	0.309	7.85
78409	20	0.429	10.90
78439	25	0.487	12.37

20 AWG (0.616 mm²)

Stranding: 19/32 (19 x 0.203 mm)
Insulation thickness: 0.007 (0.18 mm)
Jacket thickness: 0.015 (0.38 mm)

Part Number	Pairs	Nominal Diameter	
		Inch	mm
78092	2	0.211	5.36
78093	3	0.225	5.72
78094	4	0.248	6.30
78045	5	0.274	6.96
78096	6	0.301	7.65
78098	8	0.328	8.33
78049	9	0.356	9.04
78410	20	0.498	12.65
78440	25	0.565	14.35

More Choice!

EcoCable Mini cable is available with up to 25 conductors and a variety of shielding options. Custom and composite configurations are also available. Consult Alpha Wire for the latest product specifications.

Sample the Performance

Samples of EcoCable Mini cable are available today! Request yours at www.alphawire.com/ecogen or call 1-800-52 ALPHA

EcoCable Mini Cable



Foil Shielded Multiconductor

28 AWG (0.0925 mm²)

Stranding: 19/40 (19 x 0.079 mm)
Insulation thickness: 0.007 (0.18 mm)
Jacket thickness: 0.015 (0.38 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
78102	2	0.098	2.49
78103	3	0.103	2.62
78104	4	0.111	2.82
78106	6	0.128	3.25
78108	8	0.138	3.51

26 AWG (0.154 mm²)

Stranding: 19/38 (19 x 0.102 mm)
Insulation thickness: 0.007 (0.18 mm)
Jacket thickness: 0.015 (0.38 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
78112	2	0.106	2.69
78113	3	0.111	2.82
78114	4	0.12	3.05
78116	6	0.14	3.56
78118	8	0.151	3.84
78120	10	0.174	4.42
78121	15	0.194	4.93

24 AWG (0.241 mm²)

Stranding: 19/36 (19 x 0.127 mm)
Insulation thickness: 0.007 (0.18 mm)
Jacket thickness: 0.015 (0.38 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
78122	2	0.116	2.95
78123	3	0.122	3.10
78124	4	0.132	3.35
78126	6	0.156	3.96
78128	8	0.168	4.27
78130	10	0.194	4.93
78131	15	0.217	5.51
78413	20	0.242	6.15
78443	25	0.272	6.91

22 AWG (0.382 mm²)

Stranding: 19/34 (19 x 0.16 mm)
Insulation thickness: 0.007 (0.18 mm)
Jacket thickness: 0.015 (0.38 mm)

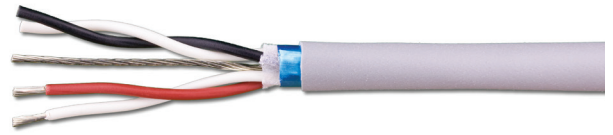
Part Number	Conductors	Nominal Diameter	
		Inch	mm
78132	2	0.13	3.30
78133	3	0.137	3.48
78134	4	0.149	3.78
78136	6	0.177	4.50
78138	8	0.191	4.85
78140	10	0.222	5.64
78141	15	0.249	6.32
78414	20	0.279	7.09
78444	25	0.314	7.98

20 AWG (0.616 mm²)

Stranding: 19/32 (19 x 0.203 mm)
Insulation thickness: 0.007 (0.18 mm)
Jacket thickness: 0.015 (0.38 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
78142	2	0.146	3.71
78143	3	0.154	3.91
78144	4	0.169	4.29
78146	6	0.201	5.11
78148	8	0.218	5.54
78150	10	0.254	6.45
78155	15	0.286	7.26
78415	20	0.321	8.15
78445	25	0.362	9.19

EcoCable Mini Cable



Foil Shielded Pairs

28 AWG (0.0925 mm²)

Stranding: 19/40 (19 x 0.079 mm)
Insulation thickness: 0.007 (0.18 mm)
Jacket thickness: 0.015 (0.38 mm)

Part Number	Pairs	Nominal Diameter	
		Inch	mm
78152	2	0.136	3.45
78153	3	0.144	3.66
78154	4	0.157	3.99
78105	5	0.171	4.34
78156	6	0.186	4.72
78158	8	0.202	5.13
78109	9	0.217	5.51

26 AWG (0.154 mm²)

Stranding: 19/38 (19 x 0.102 mm)
Insulation thickness: 0.007 (0.18 mm)
Jacket thickness: 0.015 (0.38 mm)

Part Number	Pairs	Nominal Diameter	
		Inch	mm
78162	2	0.150	3.81
78163	3	0.158	4.01
78164	4	0.173	4.39
78115	5	0.189	4.80
78166	6	0.206	5.23
78168	8	0.223	5.66
78119	9	0.241	6.12

24 AWG (0.241 mm²)

Stranding: 19/36 (19 x 0.127 mm)
Insulation thickness: 0.007 (0.18 mm)
Jacket thickness: 0.015 (0.38 mm)

Part Number	Pairs	Nominal Diameter	
		Inch	mm
78172	2	0.166	4.22
78173	3	0.176	4.47
78174	4	0.193	4.90
78125	5	0.211	5.36
78176	6	0.231	5.87
78178	8	0.251	6.38
78129	9	0.271	6.88
78418	20	0.373	9.47
78448	25	0.422	10.72

22 AWG (0.382 mm²)

Stranding: 19/34 (19 x 0.16 mm)
Insulation thickness: 0.007 (0.18 mm)
Jacket thickness: 0.015 (0.38 mm)

Part Number	Pairs	Nominal Diameter	
		Inch	mm
78182	2	0.189	4.80
78183	3	0.201	5.11
78184	4	0.221	5.61
78135	5	0.243	6.17
78186	6	0.265	6.73
78188	8	0.289	7.34
78139	9	0.313	7.95
78419	20	0.433	11.00
78449	25	0.491	12.47

20 AWG (0.616 mm²)

Stranding: 19/32 (19 x 0.203 mm)
Insulation thickness: 0.007 (0.18 mm)
Jacket thickness: 0.015 (0.38 mm)

Part Number	Pairs	Nominal Diameter	
		Inch	mm
78192	2	0.215	5.46
78193	3	0.229	5.82
78194	4	0.252	6.40
78145	5	0.278	7.06
78196	6	0.305	7.75
78198	8	0.332	8.43
78149	9	0.360	9.14
78420	20	0.502	12.75
78450	25	0.569	14.45

More Choice!

EcoCable Mini cable is available with up to 25 conductors and a variety of shielding options. Custom and composite configurations are also available. Consult Alpha Wire for the latest product specifications.

Sample the Performance

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EcoCable Mini Cable

Individually Foil Shielded Pairs + Overall Foil Shield

28 AWG (0.0925 mm²)

Stranding: 19/40 (19 x 0.079 mm)
Insulation thickness: 0.007 (0.18 mm)
Jacket thickness: 0.015 (0.38 mm)

Part Number	Pairs	Nominal Diameter	
		Inch	mm
78202	2	0.153	3.89
78213	3	0.162	4.11
78204	4	0.177	4.50
78205	5	0.194	4.93
78206	6	0.211	5.36
78208	8	0.229	5.82
78209	9	0.247	6.27

26 AWG (0.154 mm²)

Stranding: 19/38 (19 x 0.102 mm)
Insulation thickness: 0.007 (0.18 mm)
Jacket thickness: 0.015 (0.38 mm)

Part Number	Pairs	Nominal Diameter	
		Inch	mm
78212	2	0.167	4.24
78223	3	0.177	4.50
78214	4	0.194	4.93
78215	5	0.213	5.41
78216	6	0.232	5.89
78218	8	0.252	6.40
78219	9	0.273	6.93

24 AWG (0.241 mm²)

Stranding: 19/36 (19 x 0.127 mm)
Insulation thickness: 0.007 (0.18 mm)
Jacket thickness: 0.015 (0.38 mm)

Part Number	Pairs	Nominal Diameter	
		Inch	mm
78222	2	0.185	4.70
78233	3	0.196	4.98
78224	4	0.215	5.46
78225	5	0.237	6.02
78226	6	0.259	6.58
78228	8	0.282	7.16
78229	9	0.305	7.75

22 AWG (0.382 mm²)

Stranding: 19/34 (19 x 0.16 mm)
Insulation thickness: 0.007 (0.18 mm)
Jacket thickness: 0.015 (0.38 mm)

Part Number	Pairs	Nominal Diameter	
		Inch	mm
78232	2	0.209	5.31
78243	3	0.222	5.64
78234	4	0.245	6.22
78235	5	0.270	6.86
78236	6	0.296	7.52
78238	8	0.322	8.18
78239	9	0.349	8.86

20 AWG (0.616 mm²)

Stranding: 19/32 (19 x 0.203 mm)
Insulation thickness: 0.007 (0.18 mm)
Jacket thickness: 0.015 (0.38 mm)

Part Number	Pairs	Nominal Diameter	
		Inch	mm
78242	2	0.237	6.02
78253	3	0.253	6.43
78244	4	0.279	7.09
78245	5	0.308	7.82
78246	6	0.338	8.59
78248	8	0.369	9.37
78249	9	0.400	10.16

EcoCable Mini Cable

Supra-Shield Foil + Braid Multiconductor

28 AWG (0.0925 mm²)

Stranding: 19/40 (19 x 0.079 mm)
Insulation thickness: 0.007 (0.18 mm)
Jacket thickness: 0.015 (0.38 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
78302	2	0.125	3.18
78303	3	0.130	3.30
78304	4	0.138	3.51
78306	6	0.155	3.94
78308	8	0.165	4.19

26 AWG (0.154 mm²)

Stranding: 19/38 (19 x 0.102 mm)
Insulation thickness: 0.007 (0.18 mm)
Jacket thickness: 0.015 (0.38 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
78312	2	0.133	3.38
78313	3	0.138	3.51
78314	4	0.147	3.73
78316	6	0.167	4.24
78318	8	0.178	4.52
78320	10	0.201	5.11
78321	15	0.221	5.61

24 AWG (0.241 mm²)

Stranding: 19/36 (19 x 0.127 mm)
Insulation thickness: 0.007 (0.18 mm)
Jacket thickness: 0.015 (0.38 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
78322	2	0.143	3.63
78323	3	0.149	3.78
78324	4	0.159	4.04
78326	6	0.183	4.65
78328	8	0.195	4.95
78330	10	0.221	5.61
78331	15	0.244	6.20
78423	20	0.269	6.83
78453	25	0.299	7.59

22 AWG (0.382 mm²)

Stranding: 19/34 (19 x 0.16 mm)
Insulation thickness: 0.007 (0.18 mm)
Jacket thickness: 0.015 (0.38 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
78332	2	0.157	3.99
78333	3	0.164	4.17
78334	4	0.176	4.47
78336	6	0.204	5.18
78338	8	0.218	5.54
78340	10	0.249	6.32
78341	15	0.276	7.01
78424	20	0.306	7.77
78454	25	0.341	8.66

20 AWG (0.616 mm²)

Stranding: 19/32 (19 x 0.203 mm)
Insulation thickness: 0.007 (0.18 mm)
Jacket thickness: 0.015 (0.38 mm)

Part Number	Conductors	Nominal Diameter	
		Inch	mm
78342	2	0.173	4.39
78343	3	0.181	4.60
78344	4	0.196	4.98
78346	6	0.228	5.79
78348	8	0.245	6.22
78350	10	0.281	7.14
78355	15	0.313	7.95
78425	20	0.348	8.84
78455	25	0.389	9.88

More Choice!

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EcoCable Mini Cable

Supra-Shield Foil + Braid Pairs

28 AWG (0.0925 mm²)

Stranding: 19/40 (19 x 0.079 mm)
Insulation thickness: 0.007 (0.18 mm)
Jacket thickness: 0.015 (0.38 mm)

Part Number	Pairs	Nominal Diameter	
		Inch	mm
78352	2	0.163	4.14
78353	3	0.171	4.34
78354	4	0.184	4.67
78305	5	0.198	5.03
78356	6	0.213	5.41
78358	8	0.229	5.82
78309	9	0.244	6.20

26 AWG (0.154 mm²)

Stranding: 19/38 (19 x 0.102 mm)
Insulation thickness: 0.007 (0.18 mm)
Jacket thickness: 0.015 (0.38 mm)

Part Number	Pairs	Nominal Diameter	
		Inch	mm
78362	2	0.177	4.50
78363	3	0.185	4.70
78364	4	0.200	5.08
78315	5	0.216	5.49
78366	6	0.233	5.92
78368	8	0.250	6.35
78319	9	0.268	6.81

24 AWG (0.241 mm²)

Stranding: 19/36 (19 x 0.127 mm)
Insulation thickness: 0.007 (0.18 mm)
Jacket thickness: 0.015 (0.38 mm)

Part Number	Pairs	Nominal Diameter	
		Inch	mm
78372	2	0.193	4.90
78373	3	0.203	5.16
78374	4	0.220	5.59
78325	5	0.238	6.05
78376	6	0.258	6.55
78378	8	0.278	7.06
78329	9	0.298	7.57
78428	20	0.400	10.16
78458	25	0.449	11.40

22 AWG (0.382 mm²)

Stranding: 19/34 (19 x 0.16 mm)
Insulation thickness: 0.007 (0.18 mm)
Jacket thickness: 0.015 (0.38 mm)

Part Number	Pairs	Nominal Diameter	
		Inch	mm
78382	2	0.216	5.49
78383	3	0.228	5.79
78384	4	0.248	6.30
78335	5	0.270	6.86
78386	6	0.292	7.42
78388	8	0.316	8.03
78339	9	0.340	8.64

20 AWG (0.616 mm²)

Stranding: 19/32 (19 x 0.203 mm)
Insulation thickness: 0.007 (0.18 mm)
Jacket thickness: 0.015 (0.38 mm)

Part Number	Pairs	Nominal Diameter	
		Inch	mm
78392	2	0.242	6.15
78393	3	0.256	6.50
78394	4	0.279	7.09
78345	5	0.305	7.75
78396	6	0.332	8.43
78398	8	0.359	9.12
78349	9	0.387	9.83

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