

**Thermal Class:** 155°C, 180°C, 200°C



### Product Description

- Single or Double Daglas over bare copper unvarnished and fused or with an epoxy or polyester varnish
- Single or Double Daglas over Heavy Therm-Aimid unvarnished and fused or with an epoxy or polyester varnish
- Single or Double Daglas over Heavy ML with an epoxy or polyester varnish
- Daglas products manufactured with a silicon varnish may be available upon special request

### Product Benefits

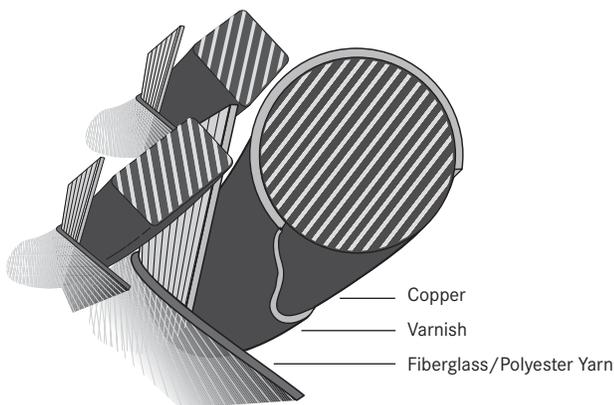
- Polyester fiber/glass fiber combination provides freedom from fraying and superior adhesion
- Outstanding toughness
- Machine windable
- Daglas-film constructions provide improved electrical properties

### Availability

Round	single	heavy
copper		1-18 AWG
Square		heavy
copper		1-14 AWG
Rectangle		
copper	(See tables on facing page)	

### Typical Applications

Uniquely suitable for a wide variety of difficult winding, and high reliability applications



Thermal Class	Wire Construction	Conductor Copper	NEMA Spec.
155	Daglas served over Bare or Film coated Magnet Wire with an Epoxy Varnish or without any Varnish (fused)	Round	MW 45-C
		Square and Rectangle	MW 46-C
180	Daglas served over Film coated Magnet Wire with a High Temperature Polyester Varnish	Round	MW 51-C
		Square and Rectangle	MW 53-C
200	Daglas served over Film coated Magnet Wire with a Silicone Varnish	Round	MW 47-C
		Square and Rectangle	MW 48-C

AWG Size	Nominal Bare Diameter	Round Wire							Square Wire						
		Bare Diameter		Min Daglas Addition		Max Overall Diameter			Bare Diameter		Min Daglas Addition		Max Overall Diameter		
		Min.	Max.	Single Daglas	Double Daglas	Bare Double Daglas	Heavy Single Daglas	Film Double Daglas	Min.	Max.	Single Daglas	Double Daglas	Bare Double Daglas	Heavy Single Daglas	Film Double Daglas
1	.2893	.2864	.2922	.0040	.0060	.3012			.2864	.2922	.0060	.0120	.3080	.3050	.3130
2	.2576	.2550	.2602	.0040	.0060	.2692			.2550	.2602	.0050	.0120	.2760	.2720	.2810
3	.2294	.2271	.2317	.0040	.0060	.2407			.2271	.2317	.0050	.0120	.2480	.2440	.2530
4	.2043	.2023	.2063	.0040	.0060	.2153	.2158	.2188	.2023	.2063	.0050	.0120	.2220	.2190	.2270
5	.1819	.1801	.1837	.0040	.0060	.1927	.1932	.1962	.1801	.1837	.0050	.0110	.1990	.1960	.2040
6	.1620	.1604	.1636	.0040	.0060	.1726	.1731	.1761	.1604	.1636	.0050	.0110	.1790	.1750	.1840
7	.1443	.1429	.1457	.0040	.0060	.1547	.1551	.1581	.1429	.1457	.0050	.0100	.1600	.1570	.1650
8	.1285	.1272	.1298	.0040	.0060	.1388	.1392	.1422	.1272	.1298	.0050	.0090	.1430	.1410	.1480
9	.1144	.1133	.1155	.0040	.0060	.1245	.1249	.1279	.1133	.1155	.0050	.0090	.1290	.1270	.1340
10	.1019	.1009	.1029	.0035	.0055	.1109	.1111	.1141	.1009	.1029	.0040	.0080	.1150	.1130	.1200
11	.0907	.0898	.0916	.0035	.0055	.0996	.0998	.1028	.0897	.0917	.0040	.0080	.1030	.1020	.1080
12	.0808	.0800	.0816	.0035	.0055	.0896	.0870	.0927	.0798	.0818	.0040	.0080	.0930	.0920	.0980
13	.0782	.0713	.0727	.0035	.0055	.0807	.0807	.0837	.0710	.0730	.0040	.0080	.0840	.0840	.0890
14	.0641	.0635	.0647	.0035	.0055	.0727	.0732	.0762	.0631	.0651	.0040	.0080	.0760	.0760	.0810
15	.0571	.0565	.0577	.0035	.0055	.0657	.0659	.0689							
16	.0508	.0503	.0513	.0035	.0055	.0593	.0595	.0625							
17	.0453	.0448	.0458	.0035	.0055	.0538	.0538	.0568							
18	.0403	.0399	.0407	.0035	.0055	.0487	.0487	.0517							

Rectangular Double Daglas Bare - Minimum and Maximum Additions to Bare Wire Thickness (inches)												
Bare Width Bare Thickness	.080 to .104	.105 to .118	.119 to .148	.149 to .167	.168 to .187	.188 to .209	.210 to .236	.237 to .264	.264 to .295	.296 to .335	.336 and over	
.030 to .055	.008-.011	.008-.011	.008-.012	.009-.013	.009-.013	.010-.014	.010-.014	.010-.015	.010-.015	.010-.015	.011-.016	
.056 to .079	.008-.011	.008-.011	.008-.012	.009-.013	.009-.013	.010-.014	.010-.014	.010-.015	.010-.015	.011-.016	.011-.016	
.080 to .088	.008-.011	.008-.012	.008-.012	.009-.013	.009-.013	.010-.014	.010-.014	.010-.015	.011-.016	.011-.016	.011-.016	
.089 to .098	.008-.011	.008-.012	.008-.012	.009-.013	.010-.014	.010-.014	.010-.014	.010-.015	.011-.016	.011-.016	.011-.016	
.099 to .104	.008-.011	.008-.012	.009-.013	.010-.014	.010-.014	.010-.014	.010-.015	.011-.016	.011-.016	.011-.016	.011-.016	
.105 to .118	.008-.012	.009-.013	.010-.014	.010-.014	.010-.014	.010-.015	.011-.016	.011-.016	.011-.016	.011-.016	.011-.016	
.119 to .124			.009-.013	.010-.014	.010-.014	.010-.014	.010-.015	.011-.016	.011-.016	.011-.016	.011-.016	
.125 to .148			.009-.013	.010-.014	.010-.014	.010-.014	.010-.015	.011-.016	.011-.016	.011-.016	.011-.016	
.149 to .157				.010-.014	.010-.014	.010-.015	.011-.016	.011-.016	.011-.016	.011-.016	.011-.016	
.158 to .167				.010-.014	.010-.015	.010-.015	.011-.016	.011-.016	.011-.016	.011-.016	.011-.016	
.168 to .187					.010-.015	.010-.015	.011-.016	.011-.016	.011-.016	.011-.016	.011-.016	
.188 & over						.010-.015	.011-.016	.011-.016	.011-.016	.011-.016	.011-.016	

Rectangular Heavy Film Single Daglas Minimum and Maximum Additions to Bare Wire Thickness (inches)			
Bare Thickness			
.030 to .188	.119 to .187	.188 to .295	.296 and over
.007-.010	.008-.011	.008-.012	.009-.013

Addition to width will be equal to or less than thickness addition. For heavy film insulated wire, add .003" to the minimum addition and .005" to the maximum addition.