

## APPLICATIONS

### Typical Applications

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

## PRODUCT DESCRIPTION

### Thermal Class: 155

Available in a variety of constructions providing a wide range of temperature classifications and increased dielectric strengths (155°C, 180°C and 200°C)

Double Daglas over bare copper with modified epoxy varnish

Double or Single Daglas over Heavy Super Hyslik 200 with modified epoxy varnish

Double or Single Daglas over Heavy ML with modified epoxy varnish

Polyester fiber/glass fiber combination provides freedom from fraying and superior adhesion

Outstanding toughness

Machine windable

Daglas-film constructions provide improved electrical properties

## GENERAL INFORMATION

### Availability

**Round** 1-18 AWG

(Daglas over single- and triple-build Super Hyslik 200 available 14-18 AWG)

**Square** 1-14 AWG

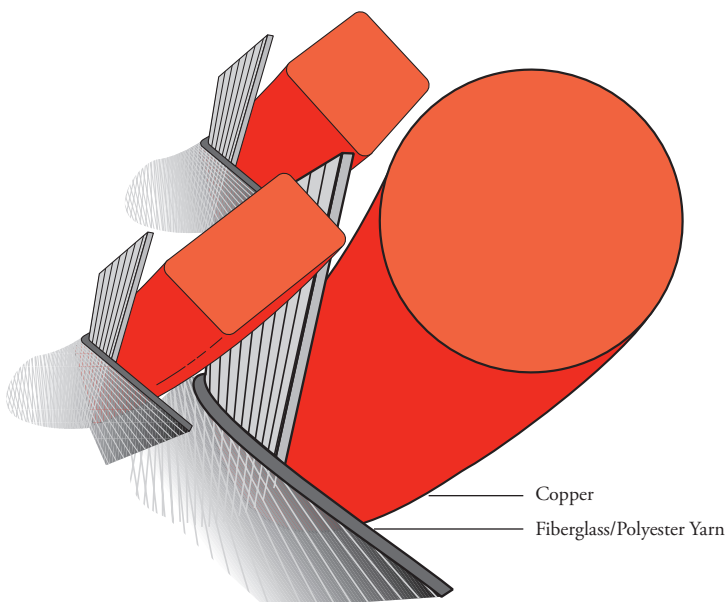
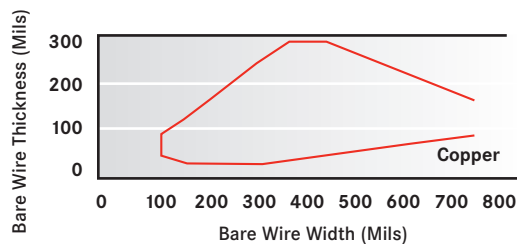
**Rectangular** See the following chart

### NEMA SPECIFICATIONS

Round	Rect. & Square
-------	----------------

MW 45-C

MW 46-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	.080	.105	.199	.149	.168	.188	.210	.237	.264	.296	.336	
Bare Thickness	to .104	to .118	to .148	to .167	to .187	to .209	to .236	to .264	to .295	to .335	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	.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	.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	.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	.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	.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	.011-.016
.119 to .124			.009-.013	.010-.014	.010-.014	.010-.014	.010-.015	.011-.016	.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	.011-.016
.149 to .157				.010-.014	.010-.014	.010-.015	.011-.016	.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	.011-.016
.168 to .187					.010-.015	.010-.015	.011-.016	.011-.016	.011-.016	.011-.016	.011-.016	.011-.016
.188 & over						.010-.015	.011-.016	.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 & 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.



Phone: 800-732-9473 · Fax: 260-421-7347  
sales@reawire.com

www.reawire.com