MIL-W-22759/41

Application and Description
These ETFE insulation single-core MIL-W-22759/41 wires are used for MIL-Spec and Aerospace. These normal weight, high temperature airframe and avionics wires have contrasting colored insulation layers which provide a visual indication of possible abrasion or other mechanical damage due to physical abuse during service or installation. The insulation resists high PH cleaning fluids, lubricating oils, fuel and many other chemicals. MIL-W-22759/41 wires are mechanically tough, flame retardant and weight saving.

Construction Details
Dual layers over conductor

Construction

Conductor: Nickel plated copper
Insulation: Cross-linked ETFE
Insulating Material Thickness: 10 mil (0.25 mm)
Jacket: Cross-linked ETFE
Braid: Treated aromatic polyamide for size 2 and larger only

Characteristics
Temperature Rating: 200°C
Voltage Rating: 600 volts
MIL-Spec Wire
SAE AS22759/41
Color Code: MIL-STD-681
## Dimensions and Weight

<table>
<thead>
<tr>
<th>AWG Size</th>
<th>Conductor Stranding</th>
<th>Conductor Diam. Min</th>
<th>Conductor Diam. Max</th>
<th>Min O.D.</th>
<th>Max O.D.</th>
<th>Approx LBS/MFT</th>
</tr>
</thead>
<tbody>
<tr>
<td>26</td>
<td>19/38</td>
<td>0.018 in 0.457 mm</td>
<td>0.020 in 0.508 mm</td>
<td>0.038 in 0.965 mm</td>
<td>0.042 in 1.067 mm</td>
<td>1.7 lbs</td>
</tr>
<tr>
<td>24</td>
<td>19/36</td>
<td>0.023 in 0.584 mm</td>
<td>0.025 in 0.635 mm</td>
<td>0.043 in 1.092 mm</td>
<td>0.047 in 1.194 mm</td>
<td>2.3 lbs</td>
</tr>
<tr>
<td>22</td>
<td>19/34</td>
<td>0.029 in 0.737 mm</td>
<td>0.031 in 0.787 mm</td>
<td>0.048 in 1.219 mm</td>
<td>0.052 in 1.321 mm</td>
<td>3.2 lbs</td>
</tr>
<tr>
<td>20</td>
<td>19/32</td>
<td>0.037 in 0.940 mm</td>
<td>0.039 in 0.991 mm</td>
<td>0.056 in 1.422 mm</td>
<td>0.06 in 1.524 mm</td>
<td>4.7 lbs</td>
</tr>
<tr>
<td>18</td>
<td>19/30</td>
<td>0.046 in 1.168 mm</td>
<td>0.049 in 1.245 mm</td>
<td>0.067 in 1.702 mm</td>
<td>0.073 in 1.854 mm</td>
<td>7.2 lbs</td>
</tr>
<tr>
<td>16</td>
<td>19/29</td>
<td>0.052 in 1.321 mm</td>
<td>0.053 in 1.346 mm</td>
<td>0.074 in 1.880 mm</td>
<td>0.08 in 2.032 mm</td>
<td>9.0 lbs</td>
</tr>
<tr>
<td>14</td>
<td>19/27</td>
<td>0.065 in 1.651 mm</td>
<td>0.069 in 1.753 mm</td>
<td>0.091 in 2.311 mm</td>
<td>0.097 in 2.464 mm</td>
<td>13.8 lbs</td>
</tr>
<tr>
<td>12</td>
<td>37/28</td>
<td>0.084 in 2.134 mm</td>
<td>0.089 in 2.261 mm</td>
<td>0.108 in 2.743 mm</td>
<td>0.114 in 2.896 mm</td>
<td>20.5 lbs</td>
</tr>
<tr>
<td>10</td>
<td>37/26</td>
<td>0.106 in 2.692 mm</td>
<td>0.112 in 2.845 mm</td>
<td>0.130 in 3.302 mm</td>
<td>0.138 in 3.505 mm</td>
<td>32.4 lbs</td>
</tr>
<tr>
<td>8</td>
<td>133/29</td>
<td>0.158 in 4.013 mm</td>
<td>0.169 in 4.293 mm</td>
<td>0.187 in 4.750 mm</td>
<td>0.203 in 5.156 mm</td>
<td>60.3 lbs</td>
</tr>
<tr>
<td>6</td>
<td>133/27</td>
<td>0.198 in 5.029 mm</td>
<td>0.213 in 5.41 mm</td>
<td>0.231 in 5.867 mm</td>
<td>0.251 in 6.375 mm</td>
<td>94.5 lbs</td>
</tr>
<tr>
<td>4</td>
<td>133/25</td>
<td>0.250 in 6.350 mm</td>
<td>0.268 in 6.807 mm</td>
<td>0.300 in 7.620 mm</td>
<td>0.320 in 8.128 mm</td>
<td>150.0 lbs</td>
</tr>
<tr>
<td>2</td>
<td>665/30</td>
<td>0.320 in 8.128 mm</td>
<td>0.340 in 8.636 mm</td>
<td>0.390 in 9.906 mm</td>
<td>0.428 in 10.871 mm</td>
<td>239.0 lbs</td>
</tr>
<tr>
<td>1</td>
<td>817/30</td>
<td>0.360 in 9.144 mm</td>
<td>0.380 in 9.652 mm</td>
<td>0.429 in 10.897 mm</td>
<td>0.461 in 11.709 mm</td>
<td>290.0 lbs</td>
</tr>
<tr>
<td>1/0</td>
<td>1045/30</td>
<td>0.395 in 10.033 mm</td>
<td>0.425 in 10.795 mm</td>
<td>0.469 in 11.913 mm</td>
<td>0.501 in 12.725 mm</td>
<td>377.0 lbs</td>
</tr>
<tr>
<td>2/0</td>
<td>1330/30</td>
<td>0.440 in 11.176 mm</td>
<td>0.475 in 12.065 mm</td>
<td>0.529 in 13.437 mm</td>
<td>0.561 in 14.249 mm</td>
<td>518.0 lbs</td>
</tr>
</tbody>
</table>