CFBRAID

TPE - e-chain® - power cable for maximum load requirements (class 6.6.4): shielded (only CFBRAID.25.08.C), oil- and biooil-resistant, flame-retardant, hydrolysis- and microbe-resistant as well as UV-resistant.

Conductor: Fine-wire strand in especially bending-stable version consisting of bare copper wires (following DIN EN 60228).

Core insulation: Mechanically high-quality, especially low-capacitance PVC mixture.

Core stranding: Cores braided together using a special technique.

Overall shield: Extremely bending-stable braid made of tinned copper wires.

Use: Subject to misprints and errors. Technical modifications are possible at any time.

Please refer regarding the availability of the items also the information in the latest chainflex® catalogue.
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TPE - e-chain® - power cable for maximum load requirements (class 6.6.4): shielded (only CFBRAID.25.08.C), oil- and biooil-resistant, flame-retardant, hydrolysis- and microbe-resistant as well as UV-resistant.

General electrical values:
(for individual details see technical table)
Nominal voltage: 600 / 1000 V (following DIN VDE 0250)
Test voltage: 4 kV (following VDE 0281-2)
Guidelines: CE, EAC & TR (CTP)

Dynamic values:
Max. speed in e-chain® use:** Unsupported: v = 10 m / s Gliding (up to 400 m and more): v = 5 m / s
Max. acceleration in e-chain® use:** a = 80 m / s²
** These values are based on specific applications or tests. They do not represent the limit of what is technically feasible.

Typical lab test setup for this cable group:
Test bending radius R: approx. 150 mm
Test travel S: approx. 1 - 15 m
Test period: min. 2 - 4 million double strokes
Test speed: approx. 0.5 - 2 m / s
Test acceleration: approx. 0.5 - 1.5 m / s²

e-chain® - power cable for maximum load requirements:
- especially abrasion-stable
- almost unlimited resistance to oil, also with biooils
- for unsupported travel distances and up to 100 m and more in gliding applications
- UV-resistant
- CE, RoHS-II, DESINA (only CFBRAID.25.08), EAC & TR (CTP)

Typical application areas:
Indoor and outdoor applications.
Storage and retrieval units for high-bay warehouses, machining units / machine tools, quick handling, clean room, semiconductor insertion, ship to shore, outdoor cranes, low-temperature applications.
Especially for applications with corkscrew-risk.
Technical tables:

### Mechanical values:

<table>
<thead>
<tr>
<th>Part no.</th>
<th>Number of cores &amp; nominal cross section [mm²]***</th>
<th>External diameter (d)**** [max. mm]</th>
<th>Copper index [kg / km]</th>
<th>Weight [kg / km]</th>
</tr>
</thead>
<tbody>
<tr>
<td>CFBRAID.25.08</td>
<td>8G2,5</td>
<td>20,0</td>
<td>212</td>
<td>451</td>
</tr>
<tr>
<td>CFBRAID.25.08.C</td>
<td>(8G2,5)C</td>
<td>23,5</td>
<td>352</td>
<td>716</td>
</tr>
</tbody>
</table>

*** G ⇒ cable contains a greenyellow core.
**** External diameters are maximum values and may tend toward lower tolerance limits.

### Electrical values:

<table>
<thead>
<tr>
<th>Nominal cross section [mm²]</th>
<th>Conductor resistance [approx. Ω / km] at 20 °C</th>
<th>Max. current rating [A] at 30 °C*</th>
</tr>
</thead>
<tbody>
<tr>
<td>(following)</td>
<td>DIN EN 60228-A</td>
<td>DIN VDE 0298-4</td>
</tr>
<tr>
<td>2.5</td>
<td>7,95</td>
<td>30</td>
</tr>
</tbody>
</table>

* The max. current rating depends on factors such as the individual environmental conditions and the type of installation.

### Construction table:

<table>
<thead>
<tr>
<th>Part no.</th>
<th>Cable construction</th>
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<th>Cable construction</th>
</tr>
</thead>
<tbody>
<tr>
<td>CFBRAID.25.08</td>
<td><img src="CFBRAID.25.08" alt="Diagram" /></td>
<td>CFBRAID.25.08.C</td>
<td><img src="CFBRAID.25.08.C" alt="Diagram" /></td>
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<td>8</td>
<td><img src="CFBRAID.25.08" alt="Diagram" /></td>
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