Triflex® R
TRC

**Price Index**

- Series Triflex® TRC

**Special Options Available**

- Cleanroom suitability upon request
- iF-Design Award Winner
- Triflex® R Series
- ESD classification: Electrically conductive
- ESD/ATEX version upon request
- Flammability Class: VDE 0304 IIC UL94 V2

**Assembly Tips**

Easy assembly and quick access to cables and hoses thanks to a unique ball-and-socket design.

**Features & Benefits**

1. High stability - Due to outer stop dogs, defined stops for radius and torsion
2. Easy installation and dismantling - An injection molded component. No other components (steel cables, spring suspensions etc.) are required
3. High tensile strength due to special ball-and-socket principle, enables flexible movement along all axes
4. Impact-resistant, dirt-repelling, rugged and abrasion-resistant, smooth, rounded exterior
5. Triflex® R-Set - compact module for all movements on robots, which can be fixed on existing fastening points
6. Able to move multi-dimensionally - High degree of flexibility, even on the 6th axis. Twist up to approx. ± 10° per link possible in longitudinal axis. This assists guiding the cables and lines around difficult configurations
7. Small bend radius & short pitch - Space-saving installation
8. Easy attachment onto the robot/machine reduces setup time

**Usage Guidelines**

- If a secure cable guide is required for multi-dimensional (3D-) movements
- If high torsional stability is required
- If the system has to be shortened or lengthened easily
- If a small bending radius is required
- If high tensile strength is important

- For circular movements with high loads
  - TwisterChain System
- If simple filling is required
  - Triflex® R, TRE
- If a simpler and cost effective solution is required
  - Triflex® R, TRL

**Order Example: Complete Energy Chain®**

Please indicate chain length or number of links. Example: 6.56 ft (2m) or 144 links

<table>
<thead>
<tr>
<th>Chain Length</th>
<th>Part Number</th>
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<tbody>
<tr>
<td>6.56 ft (2 m)</td>
<td>TRC-40-058-0</td>
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</tbody>
</table>

**Components**

- **Energy Chain®**
- **Mounting Bracket**
- **Fiber Rods**

- 1 set mounting bracket with strain relief TR40-01
- 2 intermediate links without strain relief TR40-02
- +23.6" (600 mm) fiber rods TRCF-40-0600-1
Energy Chain System®
Series Triflex® R
TRC - Fully enclosed

"TRC" - Triflex® R closed design, dirt-resistant

Series

<table>
<thead>
<tr>
<th>Bi 1</th>
<th>Bi 2</th>
<th>d1</th>
<th>d2</th>
<th>Outer width</th>
<th>Bending radii</th>
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<tr>
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<td>.39 (10)</td>
<td>.39 (10)</td>
<td>1.36 (34.5)</td>
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<tr>
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<td>.51 (13)</td>
<td>.51 (13)</td>
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<td>1.70 (43.3)</td>
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<td>5.31 (135)</td>
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Part No. | Pitch | Weight | Links |
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<td>TRC-40-</td>
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Part No. structure

TRC-40-058-0

Material - permitted temperature
igumid G / -40° F (-40°C) up to +176° F (+80° C)
Flammability Class, igumid G
VDE 0304 IIC UL94 V2

Technical Data

Details of material properties ➤ Chapter 1