

Part No:


# HULL140A-29P-29P-L



## HULL140A Low Loss Armored Flexible Cable Series with 2.92mm Male Connectors - 40 GHz



### Features

- RoHs Compliant 
- Low Loss, Low VSWR, High Reliability
- Phase Stable over Temp: 500ppm Max @ -40°C ~ 85°C
- Phase Stable vs. Flexure:  $\pm 7.2^\circ$  @ 40 GHz  
(When wrapped 360° around a 2" diameter mandrel)

The HASCO **HULL140A** is a Low Loss Armored Flexible Cable Series that is phase stable over temperature and phase stable vs. flexure. Available with 2.92mm Male connectors and rated to 40 GHz.

| Part Number         | Length (inch) | Insertion Loss (dB) |
|---------------------|---------------|---------------------|
| HULL140A-29P-29P-18 | 18"           | $\leq 2.0$ dB       |
| HULL140A-29P-29P-24 | 24"           | $\leq 2.4$ dB       |
| HULL140A-29P-29P-36 | 36"           | $\leq 3.2$ dB       |
| HULL140A-29P-29P-48 | 48"           | $\leq 4.0$ dB       |
| HULL140A-29P-29P-60 | 60"           | $\leq 4.8$ dB       |

### Electrical

|                               |                               |                 |                 |
|-------------------------------|-------------------------------|-----------------|-----------------|
| • Impedance                   | 50 $\Omega$                   |                 |                 |
| • Frequency Range             | DC - 40 GHz                   |                 |                 |
| • VSWR                        | 1.35:1 Max                    |                 |                 |
| • Insertion Loss              | -0.75 dB/ft @ 40 GHz          |                 |                 |
| • Amplitude Stability         | $\leq \pm 0.3$ dB thru 40 GHz |                 |                 |
| • Velocity of Propogation     | 85%                           |                 |                 |
| • Time Delay                  | 1.18 ns/ft                    |                 |                 |
| • Capacitance                 | 23.7 pF/ft                    |                 |                 |
| • Power CW                    | 415 W @ 2 GHz                 | 120 W @ 18 GHz  | 70 W @ 40 GHz   |
| • Phase Stability vs. Flexure | $\pm 0.36^\circ$              | $\pm 3.3^\circ$ | $\pm 7.2^\circ$ |
| • RF Leakage                  | < -90 dB @ 18 GHz             |                 |                 |

### Mechanical

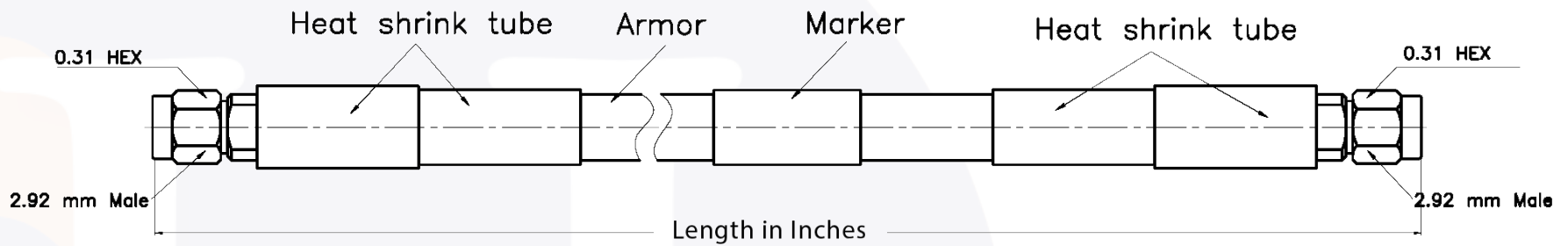
|                           |           |
|---------------------------|-----------|
| • Min Bend Radius         | 0.5 inch  |
| • Recommended Bend Radius | 1.42 inch |


### Environmental

|                     |               |
|---------------------|---------------|
| • Temperature Range | -55°C to 85°C |
|---------------------|---------------|

### Material

|                        |   |
|------------------------|---|
| • Connector Body & Nut | Passivated Stainless Steel                |
| • Gasket               | Silicon                                   |
| • Dielectric           | PEEK                                      |
| • Center Contact       | Gold Plated BeCu                          |
| • Braid                | Flat SPC Strip (inner), SPC Braid (outer) |
| • Cable Jacket         | PFA                                       |



|                                       |                  |      |       |  |                        |  |   |               |            |
|---------------------------------------|------------------|------|-------|--|------------------------|--|---|---------------|------------|
| LTR                                   | DESCRIPTION      | DATE | APPR. | DRAWN BY: <i>NS</i>  | REVIEWED BY: <i>JS</i> |  <p>5214 Bonsai Avenue • Moorpark, CA 93021<br/>(888) 498-3242 • sales@hasco-inc.com<br/><a href="http://www.hasco-inc.com">www.hasco-inc.com</a></p> |   |               |            |
| -                                     | RELEASE          | 1/25 | TC    |  | APPROVED BY: <i>TC</i> |  |   |               |            |
| A                                     | DATASHEET UPDATE | 6/26 | TC    | THESE DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF HASCO COMPONENTS AND SHALL NOT BE REPRODUCED, COPIED NOR USED - IN WHOLE OR IN PART - AS THE BASIS FOR THE MANUFACTURE OR SALE OF OTHER ITEMS WITHOUT THE EXPRESS, WRITTEN PERMISSION OF HASCO COMPONENTS. |                        | MATERIALS:<br><b>SEE DATA SHEET</b>  | CAGE CODE:<br>OT8L4                               | SCALE:<br>N/A | SIZE:<br>A |
|                                       |                  |      |       |  |                        | FINISHES:<br><b>SEE DATA SHEET</b>   | PART NO./DRAWING NO.<br><b>HULL140A-29P-29P-L</b> | REV:<br>A     |            |
| THIS DRAWING IS A CONTROLLED DOCUMENT |                  |      |       |  |                        |  |   |               |            |
|                                       |                  |      |       |  |                        |  |   |               |            |