

Abrasion Resistant Cable Liner

# FITCO<sup>®</sup> Liner HP750

## Description

Abrasion resistant anti-friction control cable liner for maximum efficiency under high loads. A PTFE filled composite ensures maximum service lifetime while maintaining anti-slip characteristics even in high temperature environments.

## Applications

Ideally suited moderate duty cables used in accelerator clutch and automatic transmission. Loads of up to 25 lbs and difficult routing with longest life cycle requirements.

## Features

- ✓ Average efficiency of 90% over 1,000,000 cycles with 25 lb. load
- ✓ Jacketed liner offers significant weight reduction compared to steel

|                               |                                       |
|-------------------------------|---------------------------------------|
| <b>Operating temperature:</b> | - 70°C to + 260°C                     |
| <b>Standard color:</b>        | Tan / Lt. brown                       |
| <b>Base material:</b>         | PTFE                                  |
| <b>Filler:</b>                | Nitrogen containing engineering resin |

## Parameters

|                        |                  |
|------------------------|------------------|
| Test cycles            | 1,000,000 cycles |
| Spring load            | 25 Lbs.          |
| Average efficiency     | 90%              |
| Change in liner weight | +2 mg            |
| Ultimate cycle life    | > 1,000,000      |

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| Properties                  | Test Method | Typical Value |
|-----------------------------|-------------|---------------|
| <b>Mechanical</b>           |             |               |
| Tensile strength            | ASTM D 638  | 5000 psi      |
| Elongation                  | ASTM D 638  | 200%          |
| Specific gravity            | ASTM D 792  | 2.153         |
| Maximum longitudinal change | UL-224      | 0.001170      |
| Flexural modulus            | ASTM D 790  | 72,000 psi    |
| Refractive index            | ASTM D 542  | 1.35          |
| Durometer shore D           | ASTM D 2240 | 55            |
| <b>Thermal</b>              |             |               |
| Melt point                  | ASTM D 1457 | 328.29°C      |
| Cold bend<br>(4h x -65°C)   | ASTM D 2671 | No cracking   |
| Flammability rating         | UL-94       | V-0           |
| Burn rate                   | ASTM D 635  | < 5 sec       |
| Heat of fusion              | ASTM D 3417 | 29-37 btu/lb  |
| <b>Chemical</b>             |             |               |
| Chemical resistance         | SAE J-1128  | Excellent     |
| Limiting Oxygen Index       | ASTM D 2863 | > 95%         |
| Water Absorption<br>(24h)   | ASTM D 570  | 0.01%         |