



THE ROUTE OF LEAST RESISTANCE

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## VAN DAMME TOURLIGHT TACTICAL FIBRE CABLE



Van Damme Tourlight II heavy duty and Tourlight Low OD tactical fibre cables are designed to withstand the demands of the outside broadcast, touring and presentation markets. Tourlight II's inner polyurethane jacket over aramid yarn centre core, coated glass yarn and overall PVC jacket ensure that the inner fibres are well protected and remain within permitted migration limits. Tourlight Low OD cable has an aramid centre core with a robust polyurethane outer jacket and is optimised for patch and reel mounted applications. Approved for use by Neutrik Ag with the OpticalCon connector, and compatible with HMA and other similar expanded beam connectors, Tourlight assemblies are trusted and relied on throughout the world.

| KEY BENEFITS   | MATERIALS   | APPLICATIONS   |
|--|---|--|
| <br>Polyurethane inner jacket<br>Water blocking and UV resistance<br>Neutrik Ag approved | <br>Optical fibre<br>Flexible PVC<br>Polyurethane | <br>Lighting<br>Presentations<br>Live sound<br>Broadcast |

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## Applications

- Neutrik OpticalCon and Expanded Beam 2 and 4 core assemblies
- Point to point and networked audio & lighting control
- 4K UHD Connectivity for live events

## Application Notes

- Tested for Tensile Performance
- Approved by Neutrik Ag for use with the Neutrik Advanced OpticalCon
- Construction optimised for minimal fibre migration in tactical use
- Tourlight II overall inner and outer jacket diameters engineered to suit common tactical fibre optic connectors
- Tourlight Low OD cable ideal for patch and reel mounted applications

## Tourlight II Mechanical Specification

288-004-050 Fibre type ISO/IEC 11801 OM3  
Core diameter  $50 \pm 2 \mu\text{m}$   
Cladding diameter  $125 \pm 1.0 \mu\text{m}$

288-004-009 Fibre type ISO/IEC 11801 OS1  
Core diameter  $9 \pm 0.40 \mu\text{m}$   
Cladding diameter  $125 \pm 0.7 \mu\text{m}$

Buffer material Polyester elastomer  
Buffer diameter  $900 \mu\text{m}$   
Colour code Blue, Yellow, Red, White  
Strength elements Aramid yarn  
Inner jacket Polyurethane  
Armouring Coated glass yarn  
Overall jacket Special PVC Composite Jet Black RAL 9005  
Overall diameter  $8.50 \pm 0.50 \text{ mm}$   
Minimum bend radius  $10 \times$  overall diameter  
Operating temperature  $-35$  to  $+80 \text{ }^\circ\text{C}$

Tensile performance IEC 60794-1-2-E1: 2400 N  
Crush resistance IEC 60794-1-2-E3: 4000 N/100 mm  
Impact IEC 60794-1-2-E4: 15 Nm

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### Tourlight Low OD Mechanical Specification

|                        |                                 |
|------------------------|---------------------------------|
| 288-104-050 Fibre type | ISO/IEC 11801 OM3               |
| Core diameter          | 50 ± 2.5 µm                     |
| Cladding diameter      | 125 ± 1.0 µm                    |
| 288-104-009 Fibre type | ISO/IEC 11801 OS1               |
| Core diameter          | 9.2 ± 0.40 µm                   |
| Cladding diameter      | 125 ± 1.0 µm                    |
| Cladding diameter      | 125 ± 1.0 µm                    |
| Buffer material        | Polyester elastomer             |
| Buffer diameter        | 900 µm                          |
| Colour code            | Blue, Yellow, Red, White        |
| Strength elements      | Aramid yarn                     |
| Overall jacket         | Polyurethane Jet Black RAL 9005 |
| Overall diameter       | 5.80 ± 0.30 mm                  |
| Minimum bend radius    | 15 x overall diameter           |
| Operating temperature  | -35 to +80 °C                   |
| Tensile performance    | IEC 60794-1-2-E1: 2400 N        |

### Tourlight II Fibre Specification

288-004-050 OM3:

|                       |               |
|-----------------------|---------------|
| Attenuation @ 850 nm  | ≤ 2.80 dB/km  |
| Attenuation @ 1300 nm | ≤ 0.80 dB/km  |
| Bandwidth @ 850 nm    | ≥ 1500 MHz/km |
| Bandwidth @ 1300 nm   | ≥ 500 MHz/km  |

288-004-009 OS1:

|                       |              |
|-----------------------|--------------|
| Attenuation @ 1310 nm | ≤ 0.35 dB/km |
| Attenuation @ 1383 nm | ≤ 0.35 dB/km |
| Attenuation @ 1550 nm | ≤ 0.25 dB/km |
| Attenuation @ 1625 nm | ≤ 0.28 dB/km |



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## Tourlight Low OD Fibre Specification

288-104-050 OM3:

|                       |               |
|-----------------------|---------------|
| Attenuation @ 850 nm  | ≤ 2.80 dB/km  |
| Attenuation @ 1300 nm | ≤ 0.80 dB/km  |
| Bandwidth @ 850 nm    | ≥ 1500 MHz/km |
| Bandwidth @ 1300 nm   | ≥ 500 MHz/km  |

288-104-009 OS1:

|                       |              |
|-----------------------|--------------|
| Attenuation @ 1310 nm | ≤ 0.35 dB/km |
| Attenuation @ 1550 nm | ≤ 0.25 dB/km |
| Attenuation @ 1550 nm | ≤ 0.25 dB/km |
| Attenuation @ 1625 nm | ≤ 0.28 dB/km |

## Part Numbers and Description

| Part Number | Description   | Max. Reel Length |
|-------------|---|------------------|
| 288-004-050 | Van Damme Tourlight II OM3 multimode 4 core fibre       | 500 m            |
| 288-004-009 | Van Damme Tourlight II OS1 single mode 4 core fibre     | 500 m            |
| 288-104-050 | Van Damme Tourlight Low OD OM3 multimode 4 core fibre   | 500 m            |
| 288-104-009 | Van Damme Tourlight Low OD OS1 single mode 4 core fibre | 1000 m           |

## Standards and Compliance

|                     |  |            |                              |
|---------------------|--|------------|------------------------------|
| RoHS 2015/863/EU    | Restriction of Hazardous Substances          |            |                              |
| REACH SVHC          | Contains >0.1% w/w Triphenyl phosphate (TPP) |            |                              |
| Substance name      | EC number                                    | CAS number | Date added to candidate list |
| Triphenyl Phosphate | 204-112-2                                    | 115-86-6   | 07/11/2024                   |