

TECHNICAL DATA SHEET

Harnessflex® Fast-Fit

Type A Straight Fittings



The Harnessflex Fast-Fit series provides maximum cable protection to the highest possible IP rating when used with Harnessflex NC solid conduits.

Features & Benefits:

- One piece design with integrated conduit and thread sealing.
- Provides continuation of cable protection between conduit and cable entry points.
- High level of mechanical protection and highest degree of ingress protection against solids and liquids.
- Secure conduit clip design.
- Fixed external male thread for insertion into metric threaded entries or knockout holes (lock nuts included).
- Conduit and thread size indicators.

Applications:

- Construction vehicles
- Agricultural machinery
- Trucks
- Heavy duty and special purpose vehicles

Material:

- Polyamide 6,6 (Nylon) body / TPE Seals
- Very high UV resistance
- Heat stabilized (Self-extinguishing, low smoke toxicity & halogen free)

Ingress Protection:

- IP66 / 67 / 68 (2 bar 30 mins) / 69K

Compatible conduits:

- All Harnessflex NC conduits

Conformity:

- CE Mark to the low voltage directive
- RoHS Compliant to 2011/65/EU
- Conforms with end of life vehicle directive (ELV) EU200/53/EC

Temperature range:

- Static Long Term -50C to +105C
- Static Short Term (3000 Hours) -50C to +120C
- Dynamic Long Term -45C to +105C
- Dynamic Short Term (5000 operations @MBR) -45C to +120C

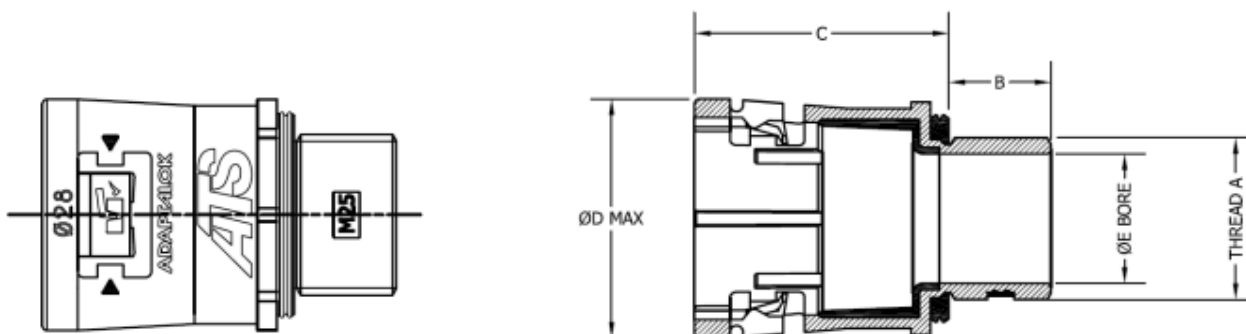
Chemical resistance:

- Please refer to [TDS000081](#)

Fast-fit series straight conduit fittings: Part numbers and dimensions

| Conduit size | | | | Nominal dimensions (mm) | | | |
|--------------|----|----|-----------|-------------------------|------|------|------|
| Part No. | NC | NW | A* | B | C | D | E |
| HTS12/M16/A | 12 | 10 | M16 x 1.5 | 11.8 | 34.2 | 21.2 | 11.2 |
| HTS16/M16/A | 16 | 13 | M16 x 1.5 | 11.8 | 36.0 | 23.2 | 11.2 |
| HTS16/M20/A | 16 | 13 | M20 x 1.5 | 11.8 | 36.0 | 23.2 | 15.2 |
| HTS20/M20/A | 20 | 17 | M20 x 1.5 | 11.8 | 36.5 | 30.2 | 15.2 |
| HTS25/M25/A | 25 | 23 | M25 x 1.5 | 15.8 | 39.3 | 37.2 | 20.0 |
| HTS32/M32/A | 32 | 29 | M32 x 1.5 | 15.8 | 41.0 | 44.2 | 31.2 |
| HTS40/M40/A | 40 | 36 | M40 x 1.5 | 15.8 | 50.8 | 54.2 | 34.0 |
| HTS50/M50/A | 50 | 48 | M50 x 1.5 | 15.8 | 56.3 | 66.2 | 44.0 |

* Standard metric thread conforming to EN60423 & BS3643 with a pitch of 1.5mm



Fast-fit series straight conduit fittings: Properties

Dynamic & Thermal Properties

| Test type | Standard | Requirement | Result |
|-------------------------------|-------------|------------------------------------|----------------|
| Dynamic Applications | IEC 61386-1 | 5000 Operations in 2 hours at MBR* | -45 to +120 °C |
| Static short term temperature | | Temporary use (3,000 hours) | -50 to +120 °C |
| Static long term temperature | | Permanent use (30,000 hours) | -40 to +105 °C |

* Conduit Minimum Bend Radius (MBR)

Flammability

| Test type | Standard | Requirement | Result |
|----------------------------------|------------------|-------------------------------------|--------|
| Glow wire | BS EN 60695-2-11 | Extinguish within 30 seconds | 850 °C |
| Flammability | IEC 61386-1-12 | 1Kw Burner flame to self-extinguish | Pass |
| Oxygen Index - Nylon Body | ISO 4589-2 | | 24.1% |
| Ignition Rating - Nylon Body | NF F16-101 | I Rating | I4 |
| Oxygen Index - Elastomer Seal | ISO 4589-2 | | 20.2% |
| Ignition Rating - Elastomer Seal | NF F16-101 | I Rating | I4 |

Toxicity

| Test type | Standard | Requirement | Result |
|--------------|------------|-------------|--------|
| Halogen Free | NFX 70-100 | < 0.5% | Pass |

Smoke

| Test type | Standard | Requirement | Result |
|------------------------------|------------|-------------|--------|
| Fume Rating - Nylon Body | NF F16-101 | F Rating | F2 |
| Fume Rating - Elastomer Seal | NF F16-101 | F Rating | F2 |

Pre-test conditions

| Duration | Standard | Temperature | Relative humidity |
|-----------|----------------|-------------|-------------------|
| 168 hours | BS EN IEC61386 | 23 °C | 50% |