

**TECHNICAL DATA SHEET** 

# Harnessflex® Fast-Fit Type C90 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:

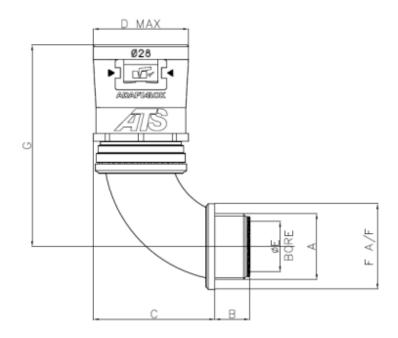
Please refer to TDS000081



# Fast-fit series 90° conduit fittings: Part numbers and dimensions

Conduit size			Nominal dimensions (mm)						
Part No.	NC	NW	<b>A</b> *	В	С	D	E	F	G
HTS12/M16/C90	12	10	M16 x 1.5	11.5	31.5	21.2	11.0	22.0	65.2
HTS16/M16/C90	16	13	M16 x 1.5	11.5	33.1	23.2	11.0	22.0	65.2
HTS16/M20/C90	16	13	M20 x 1.5	13.0	34.2	23.2	15.4	27.0	70.0
HTS20/M20/C90	20	17	M20 x 1.5	13.0	36.1	30.2	15.4	27.0	72.0
HTS25/M25/C90	25	23	M25 x 1.5	15.0	45.1	37.2	19.0	32.1	76.4
HTS32/M32/C90	32	29	M32 x 1.5	16.0	57.0	44.2	25.9	38.9	86.4
HTS40/M40/C90	40	36	M40 x 1.5	16.0	73.5	54.2	33.3	47.5	104.7
HTS50/M50/C90	50	48	M50 x 1.5	16.0	95.1	66.2	43.6	59.0	127.6

 $<sup>^{\</sup>ast}\,$  Standard metric thread conforming to EN60423 & BS3643 with a pitch of 1.5mm





## Fast-fit series 90° conduit fittings: Properties

# **Dynamic & Thermal Properties**

Test type	Standard	tandard Requirement	
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

<sup>\*</sup> 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	14
Oxygen Index - Elastomer Seal	ISO 4589-2		20.2%
Ignition Rating - Elastomer Seal	NF F16-101	I Rating	14

## **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%

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