

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

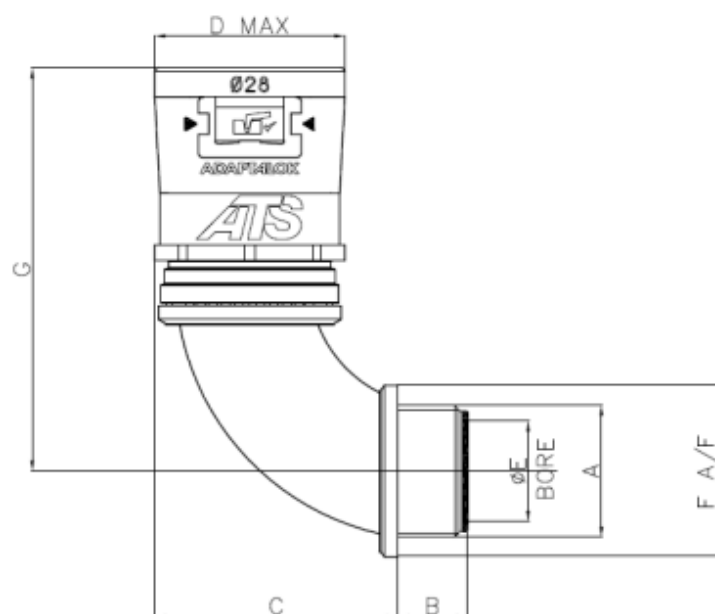
Chemical resistance:

- Please refer to [TDS000081](#)

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

Conduit size				Nominal dimensions (mm)					
Part No.	NC	NW	A*	B	C	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

* 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	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%