



Technical Data Sheet

UL / CSA FLEXIBLE CONDUIT

CONSTRUCTION:

BLACK OR GREY FLAME RETARDANT PVC COVERING
 GALVANISED STEEL CORE
 WITH COPPER PACKING



50mm and larger sizes are interlocked and unpacked.

RECOMMENDED CONNECTORS:

KF-F XQ', XR' or XS' AND KF-C XM', XK' or XL'
 FOR INDUSTRIAL AND ZONE 2 APPLICATIONS
 HAA' or HAM' GLANDS FOR ZONE 1 FLAMEPROOF APPLICATIONS.

CONDUIT SIZE (mm)	16	20	25	32	40
(US TRADE inches)	(3/8 US)	(1/2 US)	(3/4 US)	(1 US)	(1.1/4 US)
ORDERING CODES	FU* 0310	FU* 0410	FU* 0510	FU* 0610	FU* 0710
(* B FOR BLACK OR G FOR GREY)	FU* 0330	FU* 0430	FU* 0530	FU* 0620	FU* 0720
DIMENSIONS:					
INSIDE DIAMETER (mm)	12.5	16.0	21.0	26.0	34.8
OUTSIDE DIAMETER (mm)	17.8	21.1	26.4	33.1	41.8
MINIMUM BEND RADIUS (mm)	50.0	80.0	105.0	165.0	200.0
AVERAGE WEIGHT (kg/100m)	39.4	48.5	66.3	112.0	160.0
MECHANICAL CLASSIFICATIONS:					
CONNECTOR PULL-OFF	HEAVY	HEAVY	HEAVY	HEAVY	HEAVY
CONDUIT CRUSH	V.HEAVY	V.HEAVY	HEAVY	V.HEAVY	HEAVY

CONDUIT SIZE (mm)	50	63
(US TRADE inches)	(1.1/2 US)	(2 US)
ORDERING CODES	FU* 0810	FU* 0910
(* B FOR BLACK OR G FOR GREY)	FU* 0820	FU* 0920
DIMENSIONS:		
INSIDE DIAMETER (mm)	40.4	51.6
OUTSIDE DIAMETER (mm)	47.7	60.0
MINIMUM BEND RADIUS (mm)	280.0	355.0
AVERAGE WEIGHT (kg/100m)	193.5	253.0
MECHANICAL CLASSIFICATIONS:		
CONNECTOR PULL-OFF	V. HEAVY	V. HEAVY
CONDUIT CRUSH	V.HEAVY	HEAVY

FOR TEST METHODS AND EXPLANATION OF CLASSIFICATIONS SEE SHEET 810100.
 FOR PERFORMANCE DETAILS OF PVC COVERING MATERIAL SEE SHEET 810084.

OTHER PROPERTIES:

ELECTRICAL RESISTANCE (OHMS/30.5m LENGTH)	< 5Ω (Ø16mm), < 2.5Ω (Ø 20 & 25mm) AND < 1.5Ω (Ø 32 & 40mm).
MAXIMUM FAULT CURRENT	470 A (Ø16 & 20mm) AND 750 A (Ø25, 32 & 40mm).
RESISTANCE TO FLAME PROPAGATION	FLAME DIES IN LESS THAN 60 SECONDS AFTER 3 APPLICATIONS AND IGNITION SOURCE REMOVED.
IP RATING WITH RECOMMENDED KOPEX CONNECTOR	IP 66 (NO INGRESS OF TALCUM POWDER UNDER VACUUM AND NO INGRESS OF WATER WITH NOZZLE SPRAY FROM 3m). IP 67 (NO INGRESS OF TALCUM POWDER UNDER VACUUM AND NO INGRESS OF WATER AT 1m DEPTH FOR 30 MINUTES).
OPERATING TEMPERATURE OF COVERING	UL RATING -10 TO + 60° C. CSA RATING -10 TO 75° C. (ACTUAL RANGE: STATIC -25 TO 105° C. FLEXING -5 TO 105° C).
APPROVALS	UL, CSA.

KOPEX FLEXIBLE CONDUIT IS INTENDED TO PROTECT CABLES IN APPLICATIONS WHERE THERE IS REPEATED FLEXING, VIBRATION AND BENDING. WHEN INSTALLING WIRING SYSTEMS, ADHERENCE TO THE CURRENT WIRING REGULATIONS BS7671 OR NEC WIRING REGULATIONS (FOR USA) IS STRONGLY ADVISED.
 MINIMUM BEND RADIUS FOR FLEXING IS DEPENDANT UPON MINIMUM TEMPERATURE, BENDING FREQUENCY AND CHEMICAL ENVIRONMENT.

The Company's policy is one of continuous improvement and reserves the right to change specifications at any time without prior notice.