



# Technical Data Sheet

# LT-PVC FLEXIBLE CONDUIT

**CONSTRUCTION:**

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



10, 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 1APPLICATIONS.

CONDUIT SIZE (mm)	10	12	16	20	25
(US TRADE inches)	(1/4 US)	( 5/16 US)	(3/8 US)	(1/2 US)	(3/4 US)
ORDERING CODES	FL* 0110	FL* 0210	FL* 0310	FL* 0410	FL* 0510
(* B FOR BLACK OR G FOR GREY)	FL* 0130	FL* 0230	FL* 0330	FL* 0430	FL* 0530
<b>DIMENSIONS:</b>					
INSIDE DIAMETER (mm)	6.2	10.0	12.5	16.0	21.0
OUTSIDE DIAMETER (mm)	11.4	14.4	17.8	21.1	26.4
MINIMUM BEND RADIUS (mm)	45.0	50.0	50.0	75.0	90.0
AVERAGE WEIGHT (kg/100m)	20.0	22.0	41.9	48.1	68.9
<b>MECHANICAL CLASSIFICATIONS:</b>					
CONNECTOR PULL-OFF	MEDIUM	MEDIUM	HEAVY	HEAVY	HEAVY
CONDUIT CRUSH	HEAVY	HEAVY	HEAVY	HEAVY	HEAVY

CONDUIT SIZE (mm)	32	40	50	63
(US TRADE inches)	(1 US)	(1.1/4 US)	(1.1/2 US)	(2 US)
ORDERING CODES	FL* 0610	FL* 0710	FL* 0810	FL* 0910
(* B FOR BLACK OR G FOR GREY)	FL* 0620	FL* 0720	FL* 0820	FL* 0920
<b>DIMENSIONS:</b>				
INSIDE DIAMETER (mm)	26.0	34.8	40.4	51.6
OUTSIDE DIAMETER (mm)	33.1	41.8	47.7	60.0
MINIMUM BEND RADIUS (mm)	110.0	130.0	190.0	250.0
AVERAGE WEIGHT (kg/100m)	97.5	123.3	144.8	161.0
<b>MECHANICAL CLASSIFICATIONS:</b>				
CONNECTOR PULL-OFF	HEAVY	HEAVY	V. HEAVY	V. HEAVY
CONDUIT CRUSH	HEAVY	HEAVY	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 BREAKDOWN VOLTAGE  
 INSULATION RESISTANCE  
 RESISTANCE TO FLAME PROPAGATION  
 IP RATING WITH RECOMMENDED CONNECTOR

GREATER THAN 2kV.  
 GREATER THAN 100MΩ.  
 FLAME DIES IN LESS THAN 30 SECONDS AFTER IGNITION SOURCE REMOVED.  
 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).  
 STATIC - 25 TO + 105° C.  
 FLEXING - 5 TO + 105° C.  
 SEMKO, NEMKO, VDE (16 TO 40mm ONLY)

OPERATING TEMPERATURE OF COVERING

APPROVALS

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.



