



## 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)  
MAXIMUM FAULT CURRENT  
RESISTANCE TO FLAME PROPAGATION

IP RATING WITH RECOMMENDED KOPEX CONNECTOR

OPERATING TEMPERATURE OF COVERING

APPROVALS

< 5Ω (Ø16mm), < 2.5Ω (Ø 20 & 25mm) AND < 1.5Ω (Ø 32 & 40mm).  
470 A (Ø16 & 20mm) AND 750 A (Ø25, 32 & 40mm).

FLAME DIES IN LESS THAN 60 SECONDS AFTER 3 APPLICATIONS AND 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).

UL RATING -10 TO + 60° C. CSA RATING -10 TO 75° C.

(ACTUAL RANGE: STATIC -25 TO 105° C. FLEXING -5 TO 105° C).

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 REGULA-  
TIONS (FOR USA) IS STRONGLY ADVISED.

MINIMUM BEND RADIUS FOR FLEXING IS DEPENDANT UPON MINIMUM TEMPERATURE, BENDING FREQUENCY AND CHEMICAL ENVIRON-  
MENT.

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