

**Product description:**

FPKu-ES-F is a heavy duty straight length PVC conduit, in grey (RAL 7035), non-flame propagating, increased wall thickness, in lengths of 3 m, with one pre-moulded coupling.

This straight length plastic conduit is used for exposed installation in environments requiring high mechanical strength and in particular for exposed installations in industry and equipment engineering. Advantages are its heavy compressive strength and high corrosion resistance which makes the conduit resistant even against aggressive substances.

VDE 0605  
DIN EN 61386-21  
minimum compressive strength: 1250 N/5 cm



| Cat. No.:  | Type | Inside Ø<br>mm | Outside Ø<br>mm | Content | PU | Weight<br>PU/kg |
|------------|------|----------------|-----------------|---------|----|-----------------|
| 223 10 020 | 20   | 16,6           | 20,0            | 57      | m  | 7,695           |
| 223 10 025 | 25   | 21,2           | 25,0            | 57      | m  | 10,374          |
| 223 10 032 | 32   | 27,9           | 32,0            | 21      | m  | 5,460           |
| 223 10 040 | 40   | 35,3           | 40,0            | 21      | m  | 7,350           |
| 223 10 050 | 50   | 45,4           | 50,0            | 21      | m  | 10,185          |

| Classification             | Code     | Meaning                | Classification            | Code     | Meaning                  |
|----------------------------|----------|------------------------|---------------------------|----------|--------------------------|
| Compressive strength       | <b>4</b> | heavy (1250 N)         | Protection against solids | <b>4</b> | Foreign matter >= 1.0 mm |
| Impact strength            | <b>3</b> | medium (2.0 kg/100 mm) | Protection against water  | <b>0</b> | Not specified            |
| Minimum temperature        | <b>2</b> | - 5 °C                 | Corrosion protection      | <b>0</b> | Not specified            |
| Maximum temperature        | <b>1</b> | + 60 °C                | Tensile strength          | <b>0</b> | Not defined              |
| Bending behaviour          | <b>1</b> | rigid                  | Fire behaviour            | <b>1</b> | Non flame propagating    |
| Electrical characteristics | <b>2</b> | Insulation             | Suspended load            | <b>0</b> | Not defined              |

**Standardisation**

EN 61386-1:2009 Conduit systems for cable management - Part 1: General requirements / Source: Official Journal of the European Union of 16 May 2014 / Applied in full

EN 61386-21:2011 Conduit systems for cable management - Part 21: Particular requirements - Rigid conduit systems / Source: Official Journal of the European Union of 16 May 2014 / Applied in full

Outside diameter according to DIN EN 60423 / IEC 60423  
All dimensions without tolerances are for information only.



## Material properties

|                              |                       |   |
|------------------------------|-----------------------|---|
| Zero halogen                 | EN 50642              |   |
| Low smoke                    | DIN EN 61034-2        |   |
| <b>Non-flame propagating</b> | <b>DIN EN 61386-1</b> | • |
| UV-resistant                 | DIN EN ISO 4892       |   |
| Highspeed                    |                       |   |

## Fields of application

|                          |                                   |   |
|--------------------------|-----------------------------------|---|
| <b>on plaster</b>        | • <b>machines</b>                 | • |
| <b>under plaster</b>     | • hot asphalt                     |   |
| <b>on wood</b>           | • <b>under screed</b>             | • |
| underground installation | <b>prefabricated construction</b> | • |
| in concrete              | outdoor                           |   |

## Chemical properties

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Resistant to</b>           | hydrochloric acid emissions, sulphuric acid emissions, liquid ammonia, gaseous ammonia, gasoline, diesel fuel, aqueous fertiliser salt, photographic developer, vinegar (wine vinegar), anti-freeze, fruit juices, aqueous uric acid, fuel oil, sea water, methanol, milk, mineral oil, vegetable and animal oils, paraffin, gaseous propane, nitric acid, hydrochloric acid, sulfuric acid, terpentine, detergent |
| <b>Limitedly resistant to</b> | gaseous dry chlorine                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Not resistant to</b>       | benzene                                                                                                                                                                                                                                                                                                                                                                                                            |

## Accessories

|                   |              |            |
|-------------------|--------------|------------|
| Push-fit coupling | SMSKu-E grey | 222 50 ... |
| Push-fit elbow    | SBSKu-ES     | 223 60 ... |
| End cap           | E-Ku-E grey  | 259 95 ... |
| End cap           | E-Ku-E black | 259 96 ... |
| Clamp             | clipfix grey | 223 70 ... |
| Divisible end cap | E-Ku-ET      | 259 97 ... |
| Divisible end cap | E-Ku-ET-UV   | 259 98 ... |

## Risk analysis

The product has been manufactured and tested according to the harmonized standards 61386-1 and 61386-21 in the sense of harmonization legislation of the EU. All safety-relevant tests have been adhered to. This product poses no further risk.

## Hotline

Since technical developments cannot be foreseen, electrical installations should provide the possibility to be expanded at any time.

Information can be obtained from our technical consultants at +49 9525 88-8123