

Power Applications



Prime PE 100 Cable Duct Suitable for Welding

Description

A PE 100 electricity cable duct manufactured in accordance with EN 12201.

Suitable for High Voltage (HV) and for Medium/Low Voltage (MV/LV) applications as determined by the end user.

Dimensions & Material

- Prime Grade PE 100 material - see typical properties overleaf
- Solid black colour or black with red outersheath skin
- Smooth inner wall
- Operating Temperature: Transport, Storage and Installation -10°C to +50°C
Service -20°C to +75°C
- Supplied square ended for butt fusion welding
- Can also be mechanically jointed providing that the ends are chamfered on the outside edge by the installer

O.D. Nominal (mm)	I.D. Nominal (mm) SDR17
90	79
110	97
125	110
160	141
180	159
200	176
225	198
250	220
280	247
315	278

Marking

- Every Metre, Contrasting colour, Thermal or Inkjet, 2 print lines, 180° apart
- "ELECTRIC CABLE DUCT_RADIUS_XXmm SDRXX_ Batch No_ Line No_ Metre Count "

Customer specific print is optional.



Power Applications

Prime PE 100 Cable Duct Suitable for Welding



Typical Material Properties

High-density polyethylene copolymer designed for the extrusion of large diameter pipes. It is classified PE 100 in accordance with ISO 12162 based on ISO 9080 analysis.

Characteristics

- PE 100 Black pipe compound

Properties	Test Method	Values	Unit
Physical			
Density (pigmented)	ISO 1183/A	959	kg/m ³
Melt Flow Rate (5kg/190°C, Condition T)	ISO 1133	0.3	g/10min
Mechanical			
Tensile Strength @ Yield (23°C @ 50 mm/min)	ISO 527-2	25	MPa
Tensile Elongation @ Break (23°C @ 50 mm/min)	ISO 527-2	>350	%
Tensile Modulus (23°C @ 1 mm/min)	ISO 527-2	1100	MPa
Thermal			
VICAT Softening Point (1kg)	ISO 306	128	°C
Thermal Stability (OIT, 210°C)	ISO 10837	>20	min
Pigmentation			
Carbon Black Dispersion	ISO 18553	<3	Grade
Carbon Black Content	ISO 6964	2 to 2.5	%

Supply Configuration

Lengths: 6m, 12m, 13.5m
15m available with surcharge and subject to road/traffic permissions.

Coils: Available for up to 180mm O.D.