Power Applications

Prime PE 100 Cable Duct ENA TS 12-24 Class 1+ Suitable for Welding

Description

A PE 100 electricity cable duct manufactured in accordance with EN 12201 and ENA TS 12-24 Class 1+.

Class 1+ ducts satisfy all requirements of Class 1 ducts and in addition are manufactured from a material that satisfies the test requirements defined in Clause 16.6 of ENA TS 12-24.

Class 1+ ducts are suitable for HDD application

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 red, black or black colour 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) SDR13.6	I.D. Nominal (mm) SDR11	I.D. Nominal (mm) SDR9
63		51	48
90		73	69
110	93	89	84
125	106	101	95
140	118	113	107
160	136	130	123
180	153	146	140
200	170	162	153
225	192	182	174
250	212	202	192
280	237	227	214
315	267	256	242

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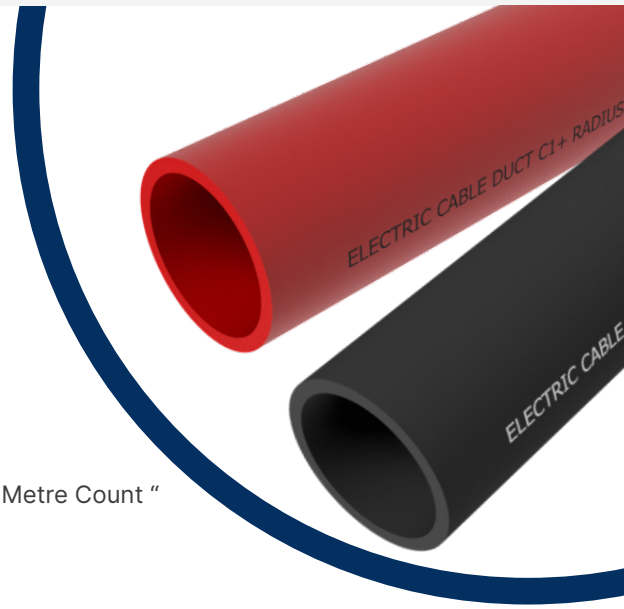

Marking

- Every Metre, Contrasting colour, Thermal or Inkjet, 2 print lines, 180° apart
- "ELECTRIC CABLE DUCT C1+_RADIUS_XXmm SDRXX_ Batch No_ Line No_ Metre Count "

Customer specific print is optional.

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	23	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.

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