

# Chapter 03

## almona Pre -Lubricated Conduit

### Material

almona Pre- Lubricated ducts are produced using LDPE + Silicon core layer.

### Physical Properties

| Properties                             | Testing Methods | Unit     | Values |
|----------------------------------------|-----------------|----------|--------|
| Density, at 23 C°                      | ISO 1183        | g/cm³    | 0.925  |
| Melt flow index (MFI) @ 190 C°/2.16 kg | ISO 1183        | g/10 min | 0.24   |

### Mechanical Properties

| Properties                     | Testing Methods | Unit | values    |
|--------------------------------|-----------------|------|-----------|
| Tensile Modulus                | ISO 527 - 1,2   | MPa  | 260       |
| Tensile Stress @ Yield         | ISO 527 - 1,2   | MPa  | 11        |
| Tensile Strain @ Break (MD/TD) | ISO 527 - 1,2   | %    | 300 / 600 |
| Coefficient of Friction        | ISO 8295        | %    | >80       |

It offers the following features:

- Available from 5MM to 63MM diameters
- Manufactured from flexible LDPE makes gradual bends without special equipment
- Internal longitudinal ribbing and inner lubrication layer reduces friction during cable placement
- Continuous lengths reduce joining costs
- Outstanding long term cable protection from shifting ground, rock and root impingement
- Provides a permanent path way, simplifies future cable repairs or replacement
- Available with UV protecting for aerial/lashed placement

**Structure of pipe:** Two layer with Silicon core  
(أنبوب متعدد الطبقات, مع طبقة سليكون)

**Special Feature:** Reduced Friction factor (معامل احتكاك منخفض)

| Part No.<br>رقم القطعة | Dimension<br>(mm) المقاس | Length (Yard)<br>الطول |
|------------------------|--------------------------|------------------------|
| 21 901                 | 16                       | 40                     |
| 21 902                 | 23                       | 40                     |

