



**Siechem 3 Core APC Conductor EBXL - XLPE 120°C Insulated PVC Sheathed 600/1000 V (UA) Power cable as per BS 5467**

**Application**

- ✓ Transmission and distribution of Power Industrial units
- ✓ Commercial and residential places
- ✓ Indoor and outdoor uses
- ✓ Cable ducts, cable trays conduits
- Direct burial and underground burial where mechanical damage risk for cables.

**Product Construction**

- ✓ Conductor : Annealed Plain copper conductor complying with BS 6360
- ✓ Insulation : Electron Beam Cross Linked Polyethylene 120°C
- ✓ Jacket : PVC Complying with BS 6746

**Technical Data**

- ✓ Operating Temperature : -15°C to +120°C
- High Insulation resistance at elevated temperature
- ✓ Short Circuit Temperature : 280°C
- ✓ Bending radius (min) : 12 x Cable dia
- ✓ Rated Voltage :600/1000 V
- ✓ Test Voltage : 3.5 kV for 5 mins.
- ✓ Specification : BS 5467

**Features**

- ✓ Electron Beam Cross Linked.
- ✓ Enhanced Mechanical, Electrical, Thermal & Weathering properties.
- ✓ Soldering iron resistant
- ✓ Resistance to corona effect.
- ✓ Easy jointing & termination
- ✓ Better resistance to most chemicals & acids
- ✓ Low direct electric losses.
- ✓ High current carrying capacity.

|                                     |                  |                  |                    |
|-------------------------------------|------------------|------------------|--------------------|
| IS : 7098 (Pt.1)<br><br>CML-6819184 | <b>ISO 9001</b>  | <b>ISO 14001</b> | <b>OHSAS 18001</b> |
| <b>AS 9100</b>                      | <b>ISO 45001</b> |                  |                    |

| Part Number | Area  | Cond.Min. No. of Wires | Thickness of EBXL / XLPE Insulation (Nom.) | Thickness of Outer Sheath | Approx Overall diameter | Approx.Net Wt.of Cable | Max.D.C Resistance at 20 deg.C | Current Rating For EBXL -XLPE Cables (125°C) |         |        | Current Rating For Chemically Cured XLPE Cables (90°C) |         |        | Short Circuit Rating for 1 sec |
|-------------|-------|------------------------|--|---------------------------|-------------------------|------------------------|--------------------------------|--|---------|--------|--|---------|--------|--------------------------------|
|             |       |                        |  |                           |                         |                        |                                | Direct in Ground                             | In Duct | In Air | Direct in Ground                                       | In Duct | In Air |                                |
|             | Sq.mm | Nos                    | mm   | mm                        | mm                      | Kg/Km                  | Ω/KM                           | Cu   | Cu      | Cu     | Cu   | Cu      | Cu     | Cu                             |
| 744E2803    | 16    | 7                      | 0.7  | 1.8                       | 17.7                    | 642                    | 1.15                           | 126  | 113     | 117    | 97   | 87      | 90     | 2.3                            |
| 744E3003    | 25    | 7                      | 0.9  | 2.0                       | 21.2                    | 955                    | 0.727                          | 159  | 143     | 143    | 122  | 110     | 110    | 3.6                            |
| 744E3203    | 35    | 7                      | 0.9  | 2.0                       | 23.2                    | 1250                   | 0.524                          | 190  | 170     | 182    | 146  | 131     | 140    | 5.0                            |
| 744E3403    | 50    | 7                      | 1.0  | 2.0                       | 26.1                    | 1698                   | 0.387                          | 224  | 202     | 211    | 172  | 155     | 162    | 7.1                            |
| 744E3703    | 70    | 19                     | 1.1  | 2.0                       | 29.1                    | 2279                   | 0.268                          | 274  | 247     | 257    | 211  | 190     | 198    | 10.0                           |
| 744E3803    | 95    | 19                     | 1.1  | 2.2                       | 32.7                    | 3028                   | 0.193                          | 329  | 296     | 312    | 253  | 228     | 240    | 13.6                           |
| 744E4103    | 120   | 19                     | 1.2  | 2.2                       | 35.7                    | 3749                   | 0.153                          | 373  | 335     | 359    | 287  | 258     | 276    | 17.1                           |
| 744E4203    | 150   | 19                     | 1.4  | 2.2                       | 39.4                    | 4625                   | 0.124                          | 417  | 376     | 413    | 321  | 289     | 318    | 21.4                           |
| 744E4403    | 185   | 37                     | 1.6  | 2.4                       | 43.8                    | 5701                   | 0.0991                         | 469  | 423     | 476    | 361  | 325     | 366    | 26.4                           |
| 744E4603    | 240   | 37                     | 1.7  | 2.6                       | 48.7                    | 7293                   | 0.0754                         | 541  | 486     | 554    | 416  | 374     | 426    | 34.3                           |
| 744E4803    | 300   | 37                     | 1.8  | 2.8                       | 53.7                    | 9049                   | 0.0601                         | 603  | 543     | 624    | 464  | 418     | 480    | 42.9                           |
| 744E4903    | 400   | 61                     | 2.0  | 3.0                       | 60.9                    | 11918                  | 0.0470                         | 677  | 610     | 710    | 521  | 469     | 546    | 57.1                           |

Cable conforming to IEC 60502 & VDE-0271 also available according to customer requirement.



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