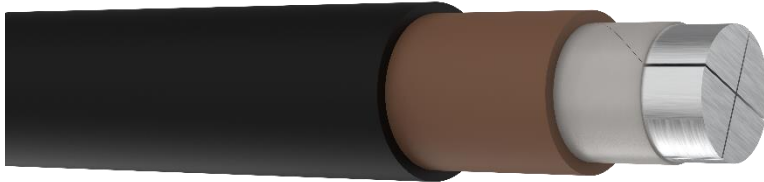


IEC 60502-1

Single Core Sectoral Unarmoured. IEC 60502-1. 600/1000V



Circular Solid Aluminium design made up of 4 shaped solid sectors. 1kV Sectoral cables are a standard specification taken across utility networks in the United Kingdom.

KEY APPLICATIONS

These cables are generally used as tails in LV substations. They are available in both armoured and unarmoured versions.

FEATURES AND BENEFITS

Sectoral Circular Solid Aluminium Cond
XLPE Insulation
PVC Oversheath

CONSTRUCTION

Conductor material	Aluminium
Conductor surface	Bare
Core insulation material	XLPE
Material outer sheath	Polyvinyl chloride (PVC)
Cable shape	Round

APPLICATION PROPERTIES

Nominal voltage U ₀ [V]	600
Nominal voltage U [V]	1,000
Max. conductor temperature [°C]	90
Outdoor installation	Yes
Underground installation	No
UV resistant	Yes
Min. operating temperature [°C]	-15
Min. installation temperature [°C]	0
Bending radius (rule)	8D

COLOURS

Insulation: Single Core: Brown

Sheath: Black

TECHNICAL DATA

Number of cores	Nominal Cross Section Conductor [mm ²]	Diameter [mm]	Minimum Bend Radius [mm]	Max. Pulling Tension* [kg]	Cable Weight [kg/km]
1	480	34.2	270	1440	1.8
1	600	37.8	300	1800	2.2
1	740	41.8	330	2000	2.7

*based on the conductor.

CURRENT RATINGS

Number of Cores	Product Code	Nominal Cross Section [mm ²]	Laid in Air [amps]
1	20144590	480	774
1	20144592	600	885
1	20144593	740	1019

Cables installed in **three phase, trefoil formation**
Current Rating conditions: Air Temp 25°C

LOGISTICS

Number of cores	Nominal Cross Section Conductor [mm ²]	Length [m]	Outer Diameter [mm]	Total Width [mm]	Total Weight [kg]
1	480	100	1500	850	335
		250	1500	850	602
		500	1700	975	1105
1	600	100	1700	975	435
		250	1700	975	755
		500	2000	975	1395
1	740	100	2000	1000	575
		250	2000	1000	975
		500	2000	1000	1645