



Application

Single-core, PVC-insulated cable with aluminium wire armour (AWA) designed for power and auxiliary fixed wiring. Suitable for use in power distribution networks, both underground and above ground, as well as in outdoor and indoor installations. Can be installed in cable ducts, directly buried, or in other fixed wiring environments where mechanical protection is required.

Standards

BS 5467, IEC/EN 60502-1, IEC/EN 60228

Flame Retardant according to IEC/EN 60332-1-2



Characteristics

Voltage Rating U_o/U
0.6/1kV

Temperature Rating
Fixed: -25°C to +90°C

Minimum Bending Radius
Fixed: 8 x overall diameter

Construction

Conductor

Class 2 stranded copper conductor

Insulation

XLPE (Cross-Linked Polyethylene)

Bedding

PVC (Polyvinyl Chloride)

Armour

AWA (Aluminium Wire Armour)

Sheath

PVC (Polyvinyl Chloride)

Sheath Colour

Black

Dimensions

	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL THICKNESS OF INSULATION mm	NOMINAL OVERALL DIAMETER	NOMINAL WEIGHT kg/km
				mm Overall	
Insulation	1	240	1.7	30.5	2810
Bedding	1	300	1.8	33.0	3430
Armour	1	500	2.2	41.0	5510
Sheath	1	630	2.4	45.5	6970



RESPONSIBLY
PRODUCED
COPPER

The Copper Mark Partnership

- IEWC promotes sustainable practices by our suppliers
- Copper Mark promotes seven of 17 UN Global Sustainability Goals
- Copper Mark recipients cover
- 20% of global copper production

ELECTRICAL TECHNICAL DATA

Single-core armoured 90 °C thermosetting insulated cables
(non-magnetic armour)
(COPPER CONDUCTORS)

Ambient temperature: 30 °C

CURRENT-CARRYING CAPACITY (amperes)

Conductor operating temperature: 90 °C

Conductor cross-sectional area 1	Reference Method C (clipped direct)		Reference Method F (in free air or on a perforated cable tray, horizontal or vertical)								
	Touching		Touching			Spaced by one cable diameter					
	2 cables, single-phase a.c. Or d.c. Flat	3 or 4 cables, three-phase a.c.	2 cables, single-phase a.c. Or d.c. Flat	3 cables, three-phase a.c. flat	3 cables, three-phase a.c. trefoil	2 cables, d.c.		2 cables, single-phase a.c.		3 or 4 cables, three-phase a.c.	
	2	3	4	5	6	Horizontal	Vertical	Horizontal	Vertical	Horizontal	Vertical
(mm ²)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)	(A)
50	237	220	253	232	222	284	270	282	266	288	266
70	303	277	322	293	285	356	349	357	337	358	331
95	367	333	389	352	346	446	426	436	412	425	393
120	425	383	449	405	402	519	497	504	477	485	449
150	488	437	516	462	463	600	575	566	539	549	510
185	557	496	587	524	529	688	660	643	614	618	574
240	656	579	689	612	625	815	782	749	714	715	666
300	755	662	792	700	720	943	906	842	805	810	755
400	853	717	899	767	815	1137	1094	929	889	848	797
500	962	791	1016	851	918	1314	1266	1032	989	923	871
630	1082	861	1146	935	1027	1528	1474	1139	1092	992	940
800	1170	904	1246	987	1119	1809	1744	1204	1155	1042	978
1000	1261	961	1345	1055	1214	2100	2026	1289	1238	1110	1041

“The above table is in accordance with Table 4E3A of the 18th Edition of IEE Wiring Regulations BS 7671:2018”