

694AW33XLH to 694333XLH

ENERGY CABLE

STANDARD: BS 5467

VOLTAGE RATING: 1900/3300V (Um 3600V)

APPLICATION:

Industrial and mains distribution. Can be laid direct in the ground, or in ducts, clipped to surface, on trays or in free air. May be embedded in concrete.

CONSTRUCTION:

Single or Three core cables. Stranded plain copper conductors, XLPE insulated, cores laid up, extruded PVC bedding, galvanised steel wire armoured (Aluminium wires for single cores) and PVC sheathed.

CORE COLOURS:

Single core: Brown.
Three core: Brown, Black and Grey.

SHEATH COLOUR: Black

MINIMUM BENDING RADIUS: 6D circular conductors, 8D Shaped conductors.

MAXIMUM CONDUCTOR TEMPERATURE: 90°C

Note: Where a conductor operates at a temperature exceeding 70°C it shall be ascertained that the equipment connected to the conductor is suitable for the conductor operating temperature (see regulation 512-1-2 of BS7671, the 17th Edition of IEE Wiring Regulations).

CURRENT RATING: Refer to ERA 69-30 Pt. V or on page 106-107.

Reduced Flame Propagation designs and OHLS® sheathed cables to BS 6724 are also available to order.



Reference number	Nominal area of conductor	Insulation thickness	Armour wire diameter	Approx. diameter under armour	Approx. overall diameter	Approx. cable weight	Maximum resistance of cable		Reactance @50Hz	Impedance AC @ 90°C	Star capacitance	Maximum armour resistance at 20°C
							DC at 20°C	AC at 90°C				
	mm ²	mm	mm	mm	mm	kg/km	Ω/km	Ω/km	Ω/km	Ω/km	μF/km	Ω/km
Single	50*	2.0	1.25	14.9	20.6	820	0.3870	0.4939	0.114	0.507	0.28	0.75
Core	70*	2.0	1.25	6.7	22.4	1050	0.2680	0.3409	0.107	0.357	0.33	0.67
Aluminium	95*	2.0	1.25	18.6	24.3	1340	0.1930	0.2468	0.102	0.267	0.38	0.61
Wire	120*	2.0	1.6	20.6	27.2	1690	0.1530	0.1960	0.101	0.220	0.39	0.42
Armoured	150*	2.0	1.6	22.2	28.8	1980	0.1593	0.1240	0.098	0.187	0.43	0.39
	185	2.0	1.6	24.0	30.8	2380	0.0991	0.1279	0.095	0.159	0.47	0.37
694AW33XLH	240	2.0	1.6	26.6	33.4	2970	0.0754	0.0985	0.092	0.134	0.54	0.34
	300	2.0	1.6	29.1	36.1	3600	0.0601	0.0796	0.089	0.120	0.59	0.31
	400	2.0	2.0	32.4	40.4	4610	0.0470	0.0635	0.089	0.109	0.62	0.22
	500	2.2	2.0	36.0	44.2	5690	0.0366	0.0513	0.087	0.101	0.66	0.20
	630	2.4	2.0	40.4	48.8	7170	0.0283	0.0419	0.085	0.095	0.70	0.18
	800	2.6	2.5	45.6	55.4	9160	0.0221	0.0349	0.085	0.092	0.71	0.13
	1000	2.8	2.5	50.6	60.6	11280	0.0176	0.0303	0.083	0.089	0.76	0.12
Three	16*	2.0	1.6	22.1	28.9	1610	1.1500	1.4665	0.104	1.470	0.19	1.90
Core	25*	2.0	1.6	25.4	32.2	2070	0.7270	0.9260	0.098	0.931	0.23	1.70
Steel	35*	2.0	1.6	28.0	35.0	2340	0.5240	0.6685	0.091	0.675	0.26	1.80
Wire	50	2.0	2.0	26.7	34.7	3050	0.3870	0.4939	0.088	0.502	0.28	1.30
Armour	70	2.0	2.0	29.8	38.0	3810	0.2680	0.3411	0.084	0.351	0.32	1.20
	95	2.0	2.0	33.0	41.4	4740	0.1930	0.2470	0.081	0.260	0.37	1.10
694333XLH	120	2.0	2.5	36.1	45.7	6080	0.1530	0.1963	0.079	0.211	0.40	0.76
	150	2.0	2.5	38.7	48.5	7020	0.1240	0.1596	0.077	0.177	0.43	0.71
	185	2.0	2.5	41.9	51.9	8280	0.0991	0.1283	0.076	0.149	0.48	0.65
	240	2.0	2.5	46.7	56.9	10320	0.0754	0.0988	0.074	0.123	0.52	0.59
	300	2.0	2.5	50.8	61.2	12310	0.0601	0.0800	0.073	0.108	0.58	0.55
	400	2.0	2.5	55.8	66.6	14790	0.0470	0.0641	0.071	0.096	0.64	0.50

* Circular compacted conductors