

EEMUA133 Lead Cable 600/1000V BS5467

Applications:	Lead cable to EEMUA 133 suitable as underground cable in the oil, gas and petrochemical industries
Conductors:	Plain annealed stranded copper conductors 2: circular or circular compacted conductors 2*: shaped or circular conductors or circular compacted conductors 2S: shaped conductors (Dimensions and weights based on circular)
Insulation:	XLPE (Crossed linked polyethylene) Radial thickness: 1.5sqmm, 0.6sqmm, 2.5sqmm, 0.7sqmm
Bedding:	PVC (Polyvinyl-chloride)
Armour/Protection:	LC (Lead alloy 'E') sheathed
Bedding:	PVC (Polyvinyl-chloride)
Armour:	SWA (Single wire armour)
Sheath/Jacket:	PVC (Polyvinyl-chloride)
Core identification:	2 core: brown & blue 3 core: brown, black & grey 4 core: brown, blue, black & grey 5 cores and above: numbered
Sheath colour:	Black
Minimum bending radius:	6 x Overall Diameter for Circular Conductors. 8 x Overall Diameter for Shaped Conductors
Voltage:	600/1000v
Operating temperature:	Maximum 90°C, minimum bending 0°C
Standards	EEMUA 133 (Where applicable): specification for underground armoured cable protected against solvent penetration & corrosive attack, BS5467: armoured electric cable BSEN60228:2005 (previously BS6360): electric conductor Class 2 stranded conductor



Two Core EEMUA 13

Size sqmm	Class of conductor	RT of insulation mm	Max diameter over core mm	Diameter over laid up cores mm	RT of lead mm	Diameter over lead mm	RT of bedding mm	Diameter over bedding mm	Diameter of armour wire mm	Diameter over armour wire mm	Nominal overall diameter mm	Weight kg/km	Gland type/Size	Gland part No.	BATT Part No
1.5	2	0.6	3.0	6.00	1.1	10.5	0.8	10.1	0.9	14.2	17.3	780	E2FW20S	88568	70039
2.5	2	0.7	3.4	6.8	1.1	11.8	0.8	10.9	1.25	16.2	19.3	985	E2FW20	88460	70040
4	2	0.7	4.0	8.0	1.1	12.9	0.8	12.1	1.25	17.3	20.4	1100	E2FW20	88460	70041
6	2	0.7	4.5	9.0	1.1	14.0	0.8	13.1	1.25	18.4	21.5	1240	E2FW20	88460	70043
10	2	0.7	5.5	11.0	1.1	15.9	0.8	15.1	1.25	20.3	23.6	1430	E2FW20	88460	70048
16	2	0.7	6.5	12.9	1.1	18.0	0.8	17.0	1.25	24.9	23	1700	E2FW25	88009	70050
25	2*	0.9	-	16.9	1.1	16.0	0.8	21.3	1.25	20.9	23.7	1900	E2FW25	88009	-
35	2*	0.9	-	19.1	1.1	17.4	0.9	23.9	1.6	23.0	25.8	2300	E2FW25	88009	-
50	2S	1.0	-	17.0	1.2	19.9	1.0	21.7	1.6	25.5	28.3	2900	E2FW32	88147	-
70	2S	1.1	-	20.0	1.3	23.1	1.0	24.9	1.6	28.7	31.7	3600	E2FW32	88147	-
95	2S	1.1	-	22.7	1.4	25.7	1.2	28.2	2.0	32.5	35.7	4600	E2FW40	88150	-
120	2S	1.2	-	25.5	1.5	28.2	1.2	31.2	2.0	35.0	38.4	5500	E2FW40	88150	-
150	2S	1.4	-	28.5	1.6	31.3	1.2	34.4	2.0	38.1	41.9	6600	E2FW50S	88152	-
185	2S	1.6	-	32.1	1.7	35.1	1.4	38.6	2.5	42.5	46.5	8200	E2FW50	88578	-
240	2S	1.7	-	36.2	1.7	38.7	1.4	42.9	2.5	46.5	50.7	10000	E2FW50	88578	-
300	2S	1.8	-	40.1	1.8	42.5	1.6	47.4	2.5	50.3	54.7	11800	E2FW63S	88153	-
400	2S	2.0	-	45.2	2.0	47.1	1.6	52.9	2.5	54.9	59.5	14500	E2FW63	88157	-

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Three Core EEMUA 133

Size sqmm	Class of conductor	RT of insulation mm	Diameter over laid up cores mm	RT of lead mm	Diameter over lead mm	RT of bedding mm	Diameter over bedding mm	Diameter of armour wire mm	Diameter over armour wire mm	Nominal overall diameter mm	Weight kg/km	Gland type/Size	Gland part No.	BATT Part No
1.5	2	0.6	6.5	1.1	8.9	0.8	10.6	0.9	12.5	15.2	730	E2FW20S	88568	70077
2.5	2	0.7	7.4	1.1	9.8	0.8	11.5	0.9	13.4	16.3	840	E2FW20	88460	70078
4	2	0.7	8.7	1.1	11.1	0.8	12.8	0.9	14.7	17.6	990	E2FW20	88460	70079
6	2	0.7	9.8	1.1	12.2	0.8	13.9	0.9	15.8	18.7	1130	E2FW20	88460	70080
10	2	0.7	12.0	1.1	14.4	0.8	16.1	1.25	18.7	21.8	1570	E2FW25	88009	70081
16	2	0.7	13.9	1.1	16.3	0.8	18.0	1.25	20.7	25	1920	E2FW25	88009	70082
25	2*	0.9	18.2	1.2	20.6	1.0	23.0	1.6	26.2	29.6	2500	E2FW32	88147	71098
35	2*	0.9	20.9	1.3	23.5	1.0	25.9	1.6	28.8	32.2	3000	E2FW32	88147	71116
50	2S	1.0	19.7	1.3	22.5	1.0	24.6	1.6	27.9	31.6	3780	E2FW32	88147	71103
70	2S	1.1	23.2	1.4	26.2	1.0	28.3	1.6	31.6	35.5	4830	E2FW40	88150	71108
95	2S	1.1	26.4	1.5	29.5	1.2	32.0	2.0	36.1	40.4	6300	E2FW50s	88152	71093
120	2S	1.2	29.6	1.6	32.9	1.2	35.4	2.0	39.5	44.0	7500	E2FW50s	88152	71104
150	2S	1.4	33.1	1.7	36.6	1.4	39.5	2.5	44.6	49.3	9500	E2FW50	88578	-
185	2S	1.6	37.2	1.8	40.9	1.4	43.8	2.5	48.9	53.8	11270	E2FW63S	88153	71105
240	2S	1.7	42.1	2.0	46.2	1.4	49.1	2.5	54.2	49.4	14000	E2FW63S	88153	-
300	2S	1.8	46.6	2.1	50.9	1.6	54.2	2.5	59.3	64.8	16650	E2FW63	88157	-
400	2S	2.0	52.0	2.3	56.7	1.6	60.0	2.5	65.1	71.0	20800	E2FW75S	88158	71009

Four Core EEMUA 133

Size sqmm	Class of conductor	RT of insulation mm	Diameter over laid up cores mm	RT of lead mm	Diameter over lead mm	RT of bedding mm	Diameter over bedding mm	Diameter of armour wire mm	Diameter over armour wire mm	Nominal overall diameter mm	Weight kg/km	Gland type/Size	Gland part No.	BATT Part No
1.5	2	0.6	7.3	1.1	9.6	0.8	11.3	0.9	13.2	16.1	800	E2FW20	88460	70060
2.5	2	0.7	8.3	1.1	10.6	0.8	12.3	0.9	14.2	17.1	910	E2FW20	88460	70066
4	2	0.7	9.8	1.1	12.1	0.8	13.8	0.9	15.7	18.6	1090	E2FW20	88460	70073
6	2	0.7	11.0	1.1	13.3	0.8	15.0	1.25	17.6	20.7	1400	E2FW25	88009	70074
10	2	0.7	13.4	1.1	15.7	0.8	17.4	1.25	20.0	23.1	1750	E2FW25	88009	70075
16	2	0.7	15.6	1.2	18.1	0.8	19.8	1.25	22.4	25.7	2260	E2FW25	88009	70076
25	2*	0.9	20.6	1.3	23.2	1.0	25.6	1.6	28.8	32.2	295	E2FW32	88147	71081
35	2*	0.9	23.4	1.4	26.2	1.0	28.6	1.6	31.8	35.0	36500	E2FW470	88150	71082
50	2S	1.0	23.0	1.4	25.9	1.0	28.0	1.6	31.3	35.2	4680	E2FW40	88150	71083
70	2S	1.1	27.1	1.5	30.2	1.2	32.7	2.0	36.8	41.1	6350	E2FW50s	88152	71084
95	2S	1.1	30.9	1.6	34.2	1.2	36.7	2.0	40.8	45.3	7900	E2FW50s	88152	71085
120	2S	1.2	34.7	1.7	38.2	1.2	41.1	2.5	46.2	50.9	10100	E2FW50	88442	71086
150	2S	1.4	38.8	1.9	42.7	1.4	45.6	2.5	50.7	55.6	12200	E2FW63S	88153	71087
185	2S	1.6	43.6	2.0	47.7	1.4	50.6	2.5	55.7	61.0	14500	E2FW63	88157	71088
240	2S	1.7	49.4	2.2	53.9	1.6	57.2	2.5	62.3	67.8	18000	E2FE75S	88158	71089
300	2S	1.8	54.8	2.3	59.5	1.6	62.8	2.5	67.9	73.8	21500	E2FW75	88586	71090
400	2S	2.0	61.0	2.5	66.1	1.8	69.8	3.15	76.2	82.7	28000	SPECIAL	-	71091

Five Core and above EEMUA 133

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No of Cores	Size sqmm	Diameter over laid up cores mm	RT of lead mm	Diameter over lead mm	RT of bedding mm	Diameter over bedding mm	Diameter of armour wire mm	Diameter over armour wire mm	Nominal overall diameter mm	Weight kg/km	Gland type/Size	Gland part No.	BATT Part No
5	1.5	10.0	1.1	10.0	0.8	11.7	0.9	13.6	16.5	840	E2FW20	88460	-
5	2.5	11.6	1.1	11.6	0.8	13.3	0.9	15.2	18.3	1030	E2FW20	88460	70155
5	4	13.3	1.1	13.3	0.8	15.0	1.25	17.6	20.7	1350	E2FW20	88460	70088
7	1.5	11.5	1.1	11.5	0.8	12.2	0.9	14.1	17.0	955	E2FW20	88460	70065
7	2.5	12.7	1.1	12.7	0.8	14.4	0.9	16.3	19.2	1150	E2FW20	88460	70037
8	2.5		0.94	16.0	0.8	17.6	1.25	20.0	22.5	1460	-	-	70087
10	1.5	14.5	1.1	14.5	0.8	16.2	1.25	18.8	22.1	1450	E2FW25	88009	70278
10	2.5	16.1	1.1	16.1	0.8	17.8	1.25	20.4	23.7	1700	E2FW25	88009	-
12	1.5	14.9	1.1	14.9	0.8	16.6	1.25	19.2	22.5	1500	E2FW25	88009	70257
12	2.5	16.6	1.1	16.6	0.8	18.3	1.25	20.9	24.2	1770	E2FW25	88009	70069
19	1.5	15.2	1.2	17.7	1.0	19.8	1.25	22.4	25.7	1950	E2FW25	88009	70064
19	2.5	17.2	1.2	19.7	1.0	21.8	1.6	25.1	28.6	2500	E2FW32	88147	70189
27	1.5	18.6	1.3	21.3	1.0	23.4	1.6	26.7	30.4	2750	E2FW32	88147	70207
27	2.5	21.1	1.3	23.8	1.0	25.9	1.6	29.2	32.9	3300	E2FW32	88147	70083
37	1.5	21.2	1.3	23.9	1.0	26.0	1.6	29.3	33.0	3200	E2FW32	88147	70084
37	2.5	24.0	1.4	26.9	1.0	29.0	1.6	32.3	36.0	4000	E2FW40	88150	70085
48	2.5	27.4		32.4		34.1		38.0	41.2				

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