

XLPE/LC/PVC/SWA/PVC EEMUA 600/1000V

Plain annealed copper conductors, XLPE insulated/PVC/Lead Alloy 'E' sheathed/PVC extruded bedded/Steel wire armoured/PVC sheathed. 600/1000 volts grade to EEMUA133 (where applicable).

TWO CORE EEMUA133

| SIZE SQ.MM | CLASS OF CONDUCTOR | RT OF INSULATION MM | MAXIMUM 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 |
|------------|--------------------|---------------------|-------------------------------|--------------------------------|---------------|-----------------------|------------------|--------------------------|----------------------------|------------------------------|-----------------------------|--------------|
| 1.5 | 2 | 0.6 | 3.0 | 6.0 | 1.1 | 10.5 | 0.8 | 10.1 | 0.9 | 14.2 | 17.3 | 780 |
| 2.5 | 2 | 0.7 | 3.4 | 6.8 | 1.1 | 11.8 | 0.8 | 10.9 | 1.25 | 16.2 | 19.3 | 985 |
| 4 | 2 | 0.7 | 4.0 | 8.0 | 1.1 | 12.9 | 0.8 | 12.1 | 1.25 | 17.3 | 20.4 | 1100 |
| 6 | 2 | 0.7 | 4.5 | 9.0 | 1.1 | 14.0 | 0.8 | 13.1 | 1.25 | 18.4 | 21.5 | 1240 |
| 10 | 2 | 0.7 | 5.5 | 11.0 | 1.1 | 15.9 | 0.8 | 15.1 | 1.25 | 20.3 | 23.6 | 1430 |
| 16 | 2 | 0.7 | 6.5 | 12.9 | 1.1 | 18.0 | 0.8 | 17.0 | 1.25 | 24.9 | 25.7 | 1700 |
| 25 | 2* | 0.9 | - | 16.9 | 1.1 | 16.0 | 0.8 | 21.3 | 1.25 | 20.9 | 23.7 | 1900 |
| 35 | 2* | 0.9 | - | 19.1 | 1.1 | 17.4 | 0.9 | 23.9 | 1.6 | 23.0 | 25.8 | 2300 |
| 50 | 2S | 1.0 | - | 17.0 | 1.2 | 19.9 | 1.0 | 21.7 | 1.6 | 25.5 | 28.3 | 2900 |
| 70 | 2S | 1.1 | - | 20.0 | 1.3 | 23.1 | 1.0 | 24.9 | 1.6 | 28.7 | 31.7 | 3600 |
| 95 | 2S | 1.1 | - | 22.7 | 1.4 | 25.7 | 1.2 | 28.2 | 2.0 | 32.5 | 35.7 | 4600 |
| 120 | 2S | 1.2 | - | 25.5 | 1.5 | 28.2 | 1.2 | 31.2 | 2.0 | 35.0 | 38.4 | 5500 |
| 150 | 2S | 1.4 | - | 28.5 | 1.6 | 31.3 | 1.2 | 34.4 | 2.0 | 38.1 | 41.9 | 6600 |
| 185 | 2S | 1.6 | - | 32.1 | 1.7 | 35.1 | 1.4 | 38.6 | 2.5 | 42.5 | 46.5 | 8200 |
| 240 | 2S | 1.7 | - | 36.2 | 1.7 | 38.7 | 1.4 | 42.9 | 2.5 | 46.5 | 50.7 | 10000 |
| 300 | 2S | 1.8 | - | 40.1 | 1.8 | 42.5 | 1.6 | 47.4 | 2.5 | 50.3 | 54.7 | 11800 |
| 400 | 2S | 2.0 | - | 45.2 | 2.0 | 47.1 | 1.6 | 52.9 | 2.5 | 54.9 | 59.5 | 14500 |

BATT PART NUMBER & GLAND TABLE

| SIZE SQ.MM | CABLE PART NUMBER | GLAND TYPE/ SIZE | GLAND PART NUMBER | SIZE SQ.MM | CABLE PART NUMBER | GLAND TYPE/ SIZE | GLAND PART NUMBER |
|------------|-------------------|------------------|-------------------|------------|-------------------|------------------|-------------------|
| 1.5 | 70039 | E2FW20S | 88568 | 50 | | E2FW32 | 88147 |
| 2.5 | 70040 | E2FW20 | 88460 | 70 | | E2FW32 | 88147 |
| 4 | 70041 | E2FW20 | 88460 | 95 | | E2FW40 | 88150 |
| 6 | 70043 | E2FW20 | 88460 | 120 | | E2FW40 | 88150 |
| 10 | 70048 | E2FW20 | 88460 | 150 | | E2FW50S | 88152 |
| 16 | 70050 | E2FW25 | 88009 | 185 | | E2FW50 | 88578 |
| 25 | | E2FW25 | 88009 | 240 | | E2FW50 | 88578 |
| 35 | | E2FW25 | 88009 | 300 | | E2FW63S | 88153 |
| | | | | 400 | | E2FW63 | 88157 |

Operating temperature: Maximum 90°C, Minimum bending 0°C
Conductor Stranding: BS6360 Class 2 stranded copper:
 2 circular or circular compacted conductors.
 2* shaped or circular conductors or circular compacted conductors.
 2S shaped conductors. (Dimensions and weights based on circular.)
Minimum bending radius: 12 x overall diameter

Conductor Identification

Two Core - Brown & Blue
 Three Core - Brown, Black & Grey
 Four Core - Brown, Black, Grey & Blue
 Five Core & above - Numbered cores.

Radial Thickness of Insulation: 1.5sqmm - 0.6sqmm, 2.5sqmm - 0.7sqmm



For approximate conductor and armour resistance, and percentage conductivity, refer to technical section For current ratings, refer to Table BEC105

EEMUA - The Engineering Equipment and Materials Users Association.

XLPE/LC/PVC/SWA/PVC EEMUA 600/1000V (Continued)

Plain annealed copper conductors, XLPE insulated/PVC/Lead Alloy 'E' sheathed/PVC extruded bedded/
Steel wire armoured/PVC sheathed. 600/1000 volts grade to EEMUA133 (where applicable).

THREE CORE EEMUA133

| SIZE SQ.MM | 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 | 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 | 70077 |
| 2.5 | 2 | 0.7 | 7.4 | 1.1 | 9.8 | 0.8 | 11.5 | 0.9 | 13.4 | 16.3 | 840 | 70078 |
| 4 | 2 | 0.7 | 8.7 | 1.1 | 11.1 | 0.8 | 12.8 | 0.9 | 14.7 | 17.6 | 990 | 70079 |
| 6 | 2 | 0.7 | 9.8 | 1.1 | 12.2 | 0.8 | 13.9 | 0.9 | 15.8 | 18.7 | 1130 | 70080 |
| 10 | 2 | 0.7 | 12.0 | 1.1 | 14.4 | 0.8 | 16.1 | 1.25 | 18.7 | 21.8 | 1570 | 70081 |
| 16 | 2 | 0.7 | 13.9 | 1.1 | 16.3 | 0.8 | 18.0 | 1.25 | 20.7 | 24.0 | 1920 | 70082 |
| 25 | 2* | 0.9 | 18.2 | 1.2 | 20.6 | 1.0 | 23.0 | 1.6 | 26.2 | 29.6 | 2500 | 71098 |
| 35 | 2* | 0.9 | 20.9 | 1.3 | 23.5 | 1.0 | 25.9 | 1.6 | 28.8 | 32.2 | 3000 | 71116 |
| 50 | 2S | 1.0 | 19.7 | 1.3 | 22.5 | 1.0 | 24.6 | 1.6 | 27.9 | 31.6 | 3780 | 71103 |
| 70 | 2S | 1.1 | 23.2 | 1.4 | 26.2 | 1.0 | 28.3 | 1.6 | 31.6 | 35.5 | 4830 | 71108 |
| 95 | 2S | 1.1 | 26.4 | 1.5 | 29.5 | 1.2 | 32.0 | 2.0 | 36.1 | 40.4 | 6300 | 71093 |
| 120 | 2S | 1.2 | 29.6 | 1.6 | 32.9 | 1.2 | 35.4 | 2.0 | 39.5 | 44.0 | 7500 | 71104 |
| 150 | 2S | 1.4 | 33.1 | 1.7 | 36.6 | 1.4 | 39.5 | 2.5 | 44.6 | 49.3 | 9500 | |
| 185 | 2S | 1.6 | 37.2 | 1.8 | 40.9 | 1.4 | 43.8 | 2.5 | 48.9 | 53.8 | 11270 | 71105 |
| 240 | 2S | 1.7 | 42.1 | 2.0 | 46.2 | 1.4 | 49.1 | 2.5 | 54.2 | 59.4 | 14000 | |
| 300 | 2S | 1.8 | 46.6 | 2.1 | 50.9 | 1.6 | 54.2 | 2.5 | 59.3 | 64.8 | 16650 | |
| 400 | 2S | 2.0 | 52.0 | 2.3 | 56.7 | 1.6 | 60.0 | 2.5 | 65.1 | 71.0 | 20800 | 71009 |

FOUR CORE EEMUA133

| SIZE SQ.MM | 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 | 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 | 70060 |
| 2.5 | 2 | 0.7 | 8.3 | 1.1 | 10.6 | 0.8 | 12.3 | 0.9 | 14.2 | 17.1 | 910 | 70066 |
| 4 | 2 | 0.7 | 9.8 | 1.1 | 12.1 | 0.8 | 13.8 | 0.9 | 15.7 | 18.6 | 1090 | 70073 |
| 6 | 2 | 0.7 | 11.0 | 1.1 | 13.3 | 0.8 | 15.0 | 1.25 | 17.6 | 20.7 | 1400 | 70074 |
| 10 | 2 | 0.7 | 13.4 | 1.1 | 15.7 | 0.8 | 17.4 | 1.25 | 20.0 | 23.1 | 1750 | 70075 |
| 16 | 2 | 0.7 | 15.6 | 1.2 | 18.1 | 0.8 | 19.8 | 1.25 | 22.4 | 25.7 | 2260 | 70076 |
| 25 | 2* | 0.9 | 20.6 | 1.3 | 23.2 | 1.0 | 25.6 | 1.6 | 28.8 | 32.2 | 2950 | 71081 |
| 35 | 2* | 0.9 | 23.4 | 1.4 | 26.2 | 1.0 | 28.6 | 1.6 | 31.8 | 35.0 | 3500 | 71082 |
| 50 | 2S | 1.0 | 23.0 | 1.4 | 25.9 | 1.0 | 28.0 | 1.6 | 31.3 | 35.2 | 4680 | 71083 |
| 70 | 2S | 1.1 | 27.1 | 1.5 | 30.2 | 1.2 | 32.7 | 2.0 | 36.8 | 41.1 | 6350 | 71084 |
| 95 | 2S | 1.1 | 30.9 | 1.6 | 34.2 | 1.2 | 36.7 | 2.0 | 40.8 | 45.3 | 7900 | 71085 |
| 120 | 2S | 1.2 | 34.7 | 1.7 | 38.2 | 1.4 | 41.1 | 2.5 | 46.2 | 50.9 | 10100 | 71086 |
| 150 | 2S | 1.4 | 38.8 | 1.9 | 42.7 | 1.4 | 45.6 | 2.5 | 50.7 | 55.6 | 12200 | 71087 |
| 185 | 2S | 1.6 | 43.6 | 2.0 | 47.7 | 1.4 | 50.6 | 2.5 | 55.7 | 61.0 | 14500 | 71088 |
| 240 | 2S | 1.7 | 49.4 | 2.2 | 53.9 | 1.6 | 57.2 | 2.5 | 62.3 | 67.8 | 18000 | 71089 |
| 300 | 2S | 1.8 | 54.8 | 2.3 | 59.5 | 1.6 | 62.8 | 2.5 | 67.9 | 73.8 | 21500 | 71090 |
| 400 | 2S | 2.0 | 61.0 | 2.5 | 66.1 | 1.8 | 69.8 | 3.15 | 76.2 | 82.7 | 28000 | 71091 |

Continued Overleaf..

XLPE/LC/PVC/SWA/PVC EEMUA 600/1000V (Continued)

Plain annealed copper conductors, XLPE insulated/PVC/ Lead Alloy 'E' sheathed/PVC extruded bedded/
Steel wire armoured/PVC sheathed. 600/1000 volts grade to EEMUA133 (where applicable).

| THREE CORE EEMUA GLAND TABLE | | | FOUR CORE EEMUA GLAND TABLE | | |
|------------------------------|-----------------|-------------|-----------------------------|-----------------|-------------|
| SIZE SQ.MM | GLAND TYPE/SIZE | PART NUMBER | SIZE SQ.MM | GLAND TYPE/SIZE | PART NUMBER |
| 1.5 | E2FW20S | 88568 | 1.5 | E2FW20 | 88460 |
| 2.5 | E2FW20 | 88460 | 2.5 | E2FW20 | 88460 |
| 4 | E2FW20 | 88460 | 4 | E2FW20 | 88460 |
| 6 | E2FW20 | 88460 | 6 | E2FW25 | 88009 |
| 10 | E2FW25 | 88009 | 10 | E2FW25 | 88009 |
| 16 | E2FW25 | 88009 | 16 | E2FW25 | 88009 |
| 25 | E2FW32 | 88147 | 25 | E2FW32 | 88147 |
| 35 | E2FW32 | 88147 | 35 | E2FW40 | 88150 |
| 50 | E2FW32 | 88147 | 50 | E2FW40 | 88150 |
| 70 | E2FW40 | 88150 | 70 | E2FW50S | 88152 |
| 95 | E2FW50S | 88152 | 95 | E2FW50S | 88152 |
| 120 | E2FW50S | 88152 | 120 | E2FW50 | 88442 |
| 150 | E2FW50 | 88578 | 150 | E2FW63S | 88153 |
| 185 | E2FW63S | 88153 | 185 | E2FW63 | 88157 |
| 240 | E2FW63S | 88153 | 240 | E2FW75S | 88158 |
| 300 | E2FW63 | 88157 | 300 | E2FW75 | 88586 |
| 400 | E2FW75S | 88158 | 400 | SPECIAL | - |



Gland sizes offered are based on nominal dimensions and are subject to change.

FIVE CORE EEMUA133

| SIZE SQ.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 | BATT PART NO | GLAND TYPE/SIZE | GLAND PART NO |
|------------|--------------------------------|---------------|-----------------------|------------------|--------------------------|----------------------------|------------------------------|-----------------------------|--------------|--------------|-----------------|---------------|
| 1.5 | 7.7 | 1.1 | 10.0 | 0.8 | 11.7 | 0.9 | 13.6 | 16.5 | 840 | - | E2FW20 | 88460 |
| 2.5 | 9.3 | 1.1 | 11.6 | 0.8 | 13.3 | 0.9 | 15.2 | 18.3 | 1030 | 70155 | E2FW20 | 88460 |
| 4 | 11.0 | 1.1 | 13.3 | 0.8 | 15.0 | 1.25 | 17.6 | 20.7 | 1350 | 70088 | E2FW20 | 88460 |

SEVEN CORE EEMUA133

| | | | | | | | | | | | | |
|-----|------|-----|------|-----|------|-----|------|------|------|-------|--------|-------|
| 1.5 | 9.2 | 1.1 | 11.5 | 0.8 | 12.2 | 0.9 | 14.1 | 17.0 | 955 | 70065 | E2FW20 | 88460 |
| 2.5 | 10.4 | 1.1 | 12.7 | 0.8 | 14.4 | 0.9 | 16.3 | 19.2 | 1150 | 70037 | E2FW20 | 88460 |

TEN CORE EEMUA133

| | | | | | | | | | | | | |
|-----|------|-----|------|-----|------|------|------|------|------|-------|--------|-------|
| 1.5 | 12.2 | 1.1 | 14.5 | 0.8 | 16.2 | 1.25 | 18.8 | 22.1 | 1450 | 70278 | E2FW25 | 88009 |
| 2.5 | 13.8 | 1.1 | 16.1 | 0.8 | 17.8 | 1.25 | 20.4 | 23.7 | 1700 | | E2FW25 | 88009 |

TWELVE CORE EEMUA133

| | | | | | | | | | | | | |
|-----|------|-----|------|-----|------|------|------|------|------|-------|--------|-------|
| 1.5 | 12.6 | 1.1 | 14.9 | 0.8 | 16.6 | 1.25 | 19.2 | 22.5 | 1500 | 70257 | E2FW25 | 88009 |
| 2.5 | 14.3 | 1.1 | 16.6 | 0.8 | 18.3 | 1.25 | 20.9 | 24.2 | 1770 | 70069 | E2FW25 | 88009 |

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XLPE/LC/PVC/SWA/PVC EEMUA 600/1000V (Continued)

Plain annealed copper conductors, XLPE insulated/PVC/Lead Alloy 'E' sheathed/PVC extruded bedded/Steel wire armoured/PVC sheathed. 600/1000 volts grade to EEMUA133 (where applicable).

NINETEEN CORE EEMUA133

| SIZE SQ.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 | BATT PART NO | GLAND TYPE/SIZE | GLAND PART NO |
|------------|--------------------------------|---------------|-----------------------|------------------|--------------------------|----------------------------|------------------------------|-----------------------------|--------------|--------------|-----------------|---------------|
| 1.5 | 15.2 | 1.2 | 17.7 | 1.0 | 19.8 | 1.25 | 22.4 | 25.7 | 1950 | 70064 | E2FW25 | 88009 |
| 2.5 | 17.2 | 1.2 | 19.7 | 1.0 | 21.8 | 1.6 | 25.1 | 28.6 | 2500 | 70189 | E2FW32 | 88147 |

TWENTY SEVEN CORE EEMUA133

| | | | | | | | | | | | | |
|-----|------|-----|------|-----|------|-----|------|------|------|-------|--------|-------|
| 1.5 | 18.6 | 1.3 | 21.3 | 1.0 | 23.4 | 1.6 | 26.7 | 30.4 | 2750 | 70207 | E2FW32 | 88147 |
| 2.5 | 21.1 | 1.3 | 23.8 | 1.0 | 25.9 | 1.6 | 29.2 | 32.9 | 3300 | 70083 | E2FW32 | 88147 |

THIRTY SEVEN CORE EEMUA133

| | | | | | | | | | | | | |
|-----|------|-----|------|-----|------|-----|------|------|------|-------|--------|-------|
| 1.5 | 21.2 | 1.3 | 23.9 | 1.0 | 26.0 | 1.6 | 29.3 | 33.0 | 3200 | 70084 | E2FW32 | 88147 |
| 2.5 | 24.0 | 1.4 | 26.9 | 1.0 | 29.0 | 1.6 | 32.3 | 36.0 | 4000 | 70085 | E2FW40 | 88150 |

Operating temperature: Maximum 90°C, Minimum bending 0°C

Conductor Stranding: Class 2 stranded copper:
 2 circular or circular compacted conductors.
 2* shaped or circular conductors or circular compacted conductors.
 2S shaped conductors.

EEMUA 133 cables five cores and above as shown have either circular or circular compacted conductors.
 (Dimensions and weights based on circular.)

Radial thickness of insulation: 1.5 sqmm - 0.6mm, 2.5sqmm - 0.7mm

Minimum bending radius: 12 x overall diameter

Conductor Identification:

- Two Core - Brown & Blue
- Three Core - Brown, Black & Grey
- Four Core - Brown, Black, Grey & Blue
- Five Core & above - Numbered cores.

For approximate conductor and armour resistance, and percentage conductivity, refer to technical section For current ratings, refer to Table BEC105

EEMUA - The Engineering Equipment and Materials Users Association.

