

## XLPE/PVC/SWA/PVC (COPPER) BS5467

Single core plain annealed copper conductor to IEC60228, XLPE insulated to IEC60502/PVC extruded bedded to IEC60502/ Steel wire armoured to IEC60502/PVC sheathed to IEC60502 600/1000 volts grade to BS5467

Flame retardant to IEC60332

**Applications:** Power cable suitable for power networks, underground, outdoors, indoors and in cable ducts

### TWO CORE: REF 6942 XWP

SIZE SQ.MM	CLASS OF CONDUCTOR	MAXIMUM DIAMETER OVER CONDUCTOR MM	RT OF INSULATION	DIAMETER OVER CORE MM	RT OF BEDDING MM	DIAMETER OVER BEDDING MM	DIAMETER OF ARMOUR WIRE MM	DIAMETER OVER ARMOUR MM	APPROX OVERALL DIAMETER MM	WEIGHT KG/KM
1.5	2	1.59	0.6	3.0	0.8	7.7	0.9	9.6	12.3	300
2.5	2	2.01	0.7	3.4	0.8	8.5	0.9	10.4	13.6	360
4	2	2.55	0.7	4.0	0.8	9.7	0.9	11.6	14.7	420
6	2	3.12	0.7	4.5	0.8	10.7	0.9	12.6	15.9	500
10	2	4.05	0.7	5.5	0.8	12.7	0.9	14.6	18.0	650
16	2	5.10	0.7	6.5	0.8	14.5	1.25	17.0	20.0	910
25	2*	-	0.9	-	0.8	18.4	1.25	20.9	24.1	1060
35	2*	-	0.9	-	1.0	21.3	1.6	24.5	27.9	1480
50	2S	-	1.0	-	1.0	19.0	1.6	22.2	25.8	1800
70	2S	-	1.1	-	1.0	22.0	1.6	25.2	29.0	2300
95	2S	-	1.1	-	1.2	25.1	2.0	29.1	33.1	3170
120	2S	-	1.2	-	1.2	27.9	2.0	31.9	36.1	3800
150	2S	-	1.4	-	1.2	30.9	2.0	34.9	39.3	4500
185	2S	-	1.6	-	1.4	34.9	2.5	39.9	44.7	5800
240	2S	-	1.7	-	1.4	39.0	2.5	44.0	49.0	7280
300	2S	-	1.8	-	1.6	43.3	2.5	48.3	53.5	8750
400	2S	-	2.0	-	1.6	48.4	2.5	53.4	59.0	10700

**Conductor stranding:** Class 2 - stranded circular or circular compacted.

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

**Conductor identification:** Brown & Blue

**Minimum bending radius:** 8 x overall diameter

(Wherever possible, larger installation radii should be used)

For current ratings refer to Table 4E4A

BATT PART NUMBER & GLAND PART NUMBER TABLE							
SIZE SQ.MM	CABLE PART NO	GLAND SIZE/TYPE	GLAND PART NO	SIZE SQ.MM	CABLE PART NO	GLAND SIZE/TYPE	GLAND PART NO
1.5	55091	BW20S	88344	70	56455	BW32	88283
2.5	55092	BW20S	88344	95	56456	BW32	88283
4	55093	BW20S	88344	120	56457	BW40	88284
6	55098	BW20S	88344	150	56458	BW40	88284
10	55105	BW20	88345	185	56459	BW50S	88349
16	55108	BW25	88346	240	56460	BW50	88350
25	56452	BW25	88346	300	56461	BW50	88350
35	56453	BW32	88283	400	56462	BW63	88352
50	56454	BW25	88346				



**BW Brass indoor glands.**

Other gland types suitable, BW SOLO (LSF), CW (Indoor/Outdoor), CW SOLO (LSF) E1W (outdoor) & E1FW (Flameproof) types.

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Flame retardant to IEC60332

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#### THREE CORE: REF 6943 XWP

SIZE SQ.MM	CLASS OF CONDUCTOR	RT OF BEDDING MM	DIAMETER OVER BEDDING MM	DIAMETER OF ARMOUR WIRE MM	DIAMETER OVER ARMOUR MM	APPROX OVERALL DIAMETER MM	WEIGHT KG/KM	BATT CABLES PART NUMBER	BW INDOOR GLAND SIZE	GLAND KIT PART NUMBER
1.5	2	0.8	8.2	0.9	10.1	12.8	341	55109	20S	88344
2.5	2	0.8	9.1	0.9	11.0	14.1	405	55110	20S	88344
4	2	0.8	10.4	0.9	12.3	15.3	495	55111	20S	88344
6	2	0.8	11.5	0.9	13.4	16.6	600	55113	20	88345
10	2	0.8	13.7	1.25	16.4	19.5	900	55115	20	88345
16	2	0.8	15.5	1.25	18.0	21.2	1080	55116	25	88346
25	2*	1.0	20.1	1.6	23.3	26.7	1750	56463	25	88346
35	2*	1.0	22.8	1.6	26.0	29.6	2100	56464	32	88283
50	2S	1.0	21.7	1.6	24.9	28.5	2350	56465	32	88283
70	2S	1.0	25.2	1.6	28.4	32.2	3150	56466	32	88283
95	2S	1.2	28.8	2.0	32.8	37.0	4300	56467	40	88284
120	2S	1.2	32.0	2.0	36.0	40.4	5250	56468	40	88284
150	2S	1.4	35.9	2.5	40.9	45.5	6720	56469	50S	88349
185	2S	1.4	40.0	2.5	45.0	49.8	8040	56470	50	88350
240	2S	1.4	44.9	2.5	49.9	55.1	10150	56471	63	88352
300	2S	1.6	49.8	2.5	54.8	60.2	12320	56472	63	88352
400	2S	1.6	55.4	2.5	60.6	66.6	15090	56473	75S	88354

#### FOUR CORE: REF 6944 XWP

SIZE SQ.MM	CLASS OF CONDUCTOR	RT OF BEDDING MM	DIAMETER OVER BEDDING MM	DIAMETER OF ARMOUR WIRE MM	DIAMETER OVER ARMOUR MM	APPROX OVERALL DIAMETER MM	WEIGHT KG/KM	BATT CABLES PART NUMBER	BW INDOOR GLAND SIZE	GLAND KIT PART NUMBER
1.5	2	0.8	9.0	0.9	10.9	13.5	390	55118	20S	88344
2.5	2	0.8	10.0	0.9	11.9	15.0	465	55121	20S	88344
4	2	0.8	11.5	0.9	13.4	16.4	579	55123	20	88345
6	2	0.8	12.7	0.9	15.3	18.7	820	55124	20	88345
10	2	0.8	15.1	1.25	17.6	21.1	1090	55126	25	88346
16	2	0.8	17.2	1.25	19.7	22.9	1400	55129	25	88346
25	2*	1.0	22.3	1.6	25.5	28.9	2100	56485	32	88283
35	2*	1.0	25.3	1.6	28.5	32.1	2580	56486	32	88283
50	2S	1.0	25.0	1.6	28.2	32.0	3000	56487	32	88283
70	2S	1.2	29.5	2.0	33.5	37.7	4300	56488	40	88284
95	2S	1.2	33.3	2.0	37.3	41.7	5510	56489	50S	88349
120	2S	1.4	37.5	2.5	42.5	47.1	7150	56490	50	88350
150	2S	1.4	41.6	2.5	46.6	51.4	8500	56491	50	88350
185	2S	1.4	46.4	2.5	51.4	56.6	10300	56492	63	88352
240	2S	1.6	52.6	2.5	57.6	63.0	13000	56493	63	88352
300	2S	1.6	58.0	2.5	63.0	68.8	15750	56494	75S	88353
400	2S	1.8	64.8	3.15	71.3	78.1	20450	56495	75	88354

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Flame retardant to IEC60332

**Applications:** Power cable suitable for power networks, underground , outdoors, indoors and in cable ducts

### FIVE CORE: REF 6945 XWP

SIZE SQ.MM	CLASS OF CONDUCTOR	RT OF BEDDING MM	DIAMETER OVER BEDDING MM	DIAMETER OF ARMOUR WIRE MM	DIAMETER OVER ARMOUR MM	APPROX OVERALL DIAMETER MM	WEIGHT KG/KM	BATT CABLES PART NUMBER	BW INDOOR GLAND SIZE	GLAND KIT PART NUMBER
1.5	2	0.8	9.9	0.9	11.8	14.2	433	55043	20S	88344
2.5	2	0.8	11.0	0.9	12.9	16.0	530	55049	20S	88344
4	2	0.8	12.7	1.25	15.3	18.4	775	55513	20	88345
6	2	0.8	14.0	1.25	16.6	19.7	929	55347	20	88345
10	2	1.0	17.1	1.25	19.7	23.2	1300	55348	25	88346
16	2	1.0	19.8	1.6	23.1	26.6	1880	55514	25	88346
25	2	1.0	24.5	1.6	27.8	31.7	2670	56216	32	88283
35	2	1.0	25.5	1.6	28.7	33.0	2800	56218	32	88283

### SIX CORE: REF 6946 XWP

1.5	2	0.8	10.9	0.9	12.8	15.2	497	-	20S	88344
2.5	2	0.8	12.1	0.9	14.0	17.1	609	-	20	88345
4	2	0.8	13.9	0.9	16.5	19.7	886	55515	20	88345
6	2	0.8	15.4	1.25	18.0	21.3	1070	55516	25	88346
10	2	1.0	18.8	1.6	22.1	25.6	1650	55517	25	88346
16	2	1.0	21.8	1.6	25.1	28.8	2190	55518	32	88283
25	2	1.0	26.9	1.6	30.2	34.1	3090	-	40	88284

### SEVEN CORE: REF 6947 XWP

1.5	2	0.8	10.9	0.9	12.8	15.2	506	55373	20S	88344
2.5	2	0.8	12.1	0.9	14.0	17.1	618	55490	20	88345
4	2	0.8	13.9	1.25	16.5	19.7	907	55484	25	88346
6	2	0.8	15.4	1.25	18.0	21.3	1110	55542	25	88346
10	2	1.0	18.8	1.25	22.1	25.6	1720	55532	25	88346
16	2	1.0	21.8	1.6	25.1	28.8	2300	55533	32	88283
25	2	1.0	30.2	1.6	34.3	38.6	3900	-	40	88284

### EIGHT CORE: REF 6948 XWP

1.5	2	0.8	11.9	1.25	14.5	17.6	663	55381	20	88345
2.5	2	0.8	13.1	1.25	15.7	18.8	793	55025	20	88345
4	2	0.8	15.3	1.25	17.9	21.2	1030	55519	25	88346
6	2	1.0	17.3	1.6	20.6	24.1	1440	-	25	88346
10	2	1.0	20.7	1.6	24.0	27.7	1960	-	32	88283

### TEN CORE: REF 694/10 XWP

1.5	2	0.8	13.9	1.25	16.5	19.8	812	55053	20	88345
2.5	2	0.8	15.5	1.25	18.1	21.4	989	55089	25	88346
4	2	1.0	18.3	1.6	21.6	25.1	1410	55044	25	88346
6	2	1.0	20.3	1.6	23.6	27.3	1680	55086	32	88283
10	2	1.0	24.3	1.6	27.6	31.5	2320	-	32	88283

### TWELVE CORE: REF 694/12 XWP

1.5	2	0.8	14.3	1.25	16.9	19.4	854	55374	25	88346
2.5	2	0.8	16.0	1.25	18.6	22.4	1080	55491	25	88346
4	2	1.0	18.9	1.6	22.2	27.7	1550	55534	32	88283
6	2	1.0	21.0	1.6	24.3	28.0	1920	55000	32	88283
10	2	1.0	25.1	1.6	28.4	32.3	2660	55241	32	88283

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Flame retardant to IEC60332

**Applications:** Power cable suitable for power networks, underground, outdoors, indoors and in cable ducts

#### SIXTEEN CORE: REF 694/16 XWP

SIZE SQ.MM	CLASS OF CONDUCTOR	RT OF BEDDING MM	DIAMETER OVER BEDDING MM	DIAMETER OF ARMOUR WIRE MM	DIAMETER OVER ARMOUR MM	APPROX OVERALL DIAMETER MM	WEIGHT KG/KM	BATT CABLES PART NUMBER	BW INDOOR GLAND SIZE	GLAND KIT PART NUMBER
1.5	2	0.8	16.0	1.25	18.6	21.9	1020	55041	25	88346
2.5	2	0.8	18.2	1.6	21.5	25.0	1430	55080	25	88346
4	2	1.0	22.1	1.6	25.4	29.1	1950	55015	32	88283
6	2	1.0	23.4	1.6	26.7	30.4	2300	55007	32	88283

#### NINETEEN CORE : REF 694/19 XWP

1.5	2	1.0	17.3	1.25	19.9	23.2	1120	55382	25	88346
2.5	2	1.0	19.3	1.6	22.6	26.1	1570	55492	25	88346
4	2	1.0	22.3	1.6	25.6	29.3	2050	55004	32	88283

#### TWENTY TWO CORE : REF 694/22 XWP

1.5	2	1.0	20.3	1.6	23.6	27.3	1560	55045	32	88283
2.5	2	1.0	22.7	1.6	26.0	29.7	1930	-	32	88283
4	2	1.0	26.3	1.6	29.6	33.5	2530	-	40	88284

#### TWENTY SEVEN CORE : REF 694/27 XWP

1.5	2	1.0	20.7	1.6	24.0	27.9	1630	55383	32	88283
2.5	2	1.0	23.2	1.6	26.5	30.2	2050	55493	32	88283
4	2	1.0	26.9	1.6	30.2	34.4	2740	55024	40	88284

#### THIRTY CORE : REF 694/30 XWP

1.5	2	1.0	21.5	1.6	24.8	28.5	1730	55048	32	88283
2.5	2	1.0	24.1	1.6	27.4	31.3	2200	-	32	88283

#### THIRTY SEVEN : REF 694/37 XWP

1.5	2	1.0	23.3	1.6	26.6	30.6	1970	55033	32	88283
2.5	2	1.0	26.1	1.6	29.4	33.8	2540	55030	32	88283
4	2	1.2	31.0	2.0	35.4	39.6	-	-	40	88284

#### FORTY CORE: REF 694/40 XWP

1.5	2	1.0	24.3	1.6	27.6	31.5	2080	-	32	88283
2.5	2	1.0	27.7	1.6	31.8	35.9	2970	-	40	88284

#### FORTY EIGHT : REF 694/48 XWP

1.5	2	1.0	26.7	1.6	30.0	33.9	2390	55384	40	88284
2.5	2	1.0	30.4	2.0	34.5	38.8	3430	55088	40	88284
4	2	1.2	36.0	2.0	39.6	44.6	-	-	50S	88349

**Operating temperature:** Maximum 90°C. Minimum bending 0°C

**Minimum bending radius:**

1.5 sq.mm - 16 sq.mm - 8 x overall diameter

25 sq.mm and above - 8 x overall diameter

**Conductor identification:**

Two Core - Brown & Blue

Three Core - Brown, Black & Grey

Four Core - Brown, Grey, Blue & Black

Five Core & above - Numbered cores.

**BW Brass indoor glands.**

**Conductor Stranding:** 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.)

For current ratings, refer to Table4E4A