

## TABLE BEC 106. Current ratings for 1900/3300 volts grade XLPE insulated/Armoured/PVC cable to BS5467

The maximum sustained ac current ratings given in this table are based, where applicable, on ERA Report 69-30: Part V - sustained current ratings for armoured cables with thermosetting insulation to BS5467. Any other current rating will have been calculated using agreed formulae and methods in IEC287.

### Conditions of installation:

Ambient air temperature: 25°C  
 Ground thermal resistivity: 1.2K.m/W  
 Ground temperature: 15°C  
 Depth of laying: 0.8m  
 Maximum conductor temperature: 90°C  
 All circuits thermally independent. Single cables solidly bonded.

Nominal area of Conductor	IN GROUND		IN SINGLE WAY DUCTS		IN FREE AIR	
	Single core Three cables Trefoil touching amp	Three core amp	Single core Three cables Ducts, trefoil touching amp	Three core amp	Single core Three cables Trefoil touching amp	Three core amp
16	-	114	-	96	-	106
25	-	147	-	124	-	142
35	-	175	-	147	-	168
50	222	207	219	174	228	202
70	271	254	264	214	285	255
95	324	304	310	257	350	312
120	366	345	342	293	407	361
150	409	387	376	328	463	410
185	460	436	414	371	528	471
240	528	502	464	428	623	554
300	589	563	506	480	710	634
400	651	633	535	549	808	727
500	720	-	579	-	915	-
630	789	-	624	-	1030	-
800	831	-	650	-	1119	-
1000	886	-	689	-	1214	-

### Rating factors for other ambient temperatures:

Ambient air temperature °C :	25	30	35	40	45	50	55
rating factor:	1.02	1.00	0.96	0.91	0.87	0.82	0.76

### Rating factors for other ground temperatures:

Ground temperature °C:	15	20	25	30	35	40	45
rating factor:	1.00	0.97	0.93	0.89	0.86	0.82	0.76

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