

## American Wire Gauge (AWG) to Metric (mm<sup>2</sup>) Conversion

AWG	mm <sup>2</sup>	AWG	mm <sup>2</sup>
30	0.05	6	16
28	0.08	4	25
26	0.14	2	35
24	0.25	1	50
22	0.34	1/0	55
21	0.38	2/0	70
20	0.5	3/0	95
18	0.75	4/0	120
17	1	300MCM	150
16	1.5	350MCM	185
14	2.5	500MCM	240
12	4	600MCM	300
10	6	750MCM	400
8	10	1,000MCM	500

### Choice of Voltage for Medium Voltage Cables

The Rated Voltage is specified as  $U_0 / U$  Where:

$U_0$  : is the rated voltage between conductor and screen or outer metallic protection.

$U$  : the rated voltage between any two conductors.

In three phase systems  $U_0$  is  $U / \sqrt{3}$

The following table gives the maximum permissible operating voltage relative to each rated voltage ( $U_0 / U$ )

Rated Voltage $U_0/U$ (KV)	Max. Voltage $U_m$ (KV)
1.8 / 3	3.6
3.6 / 6	7.2
6 / 10	12
8.7 / 15	18
12 / 20	24
18 / 30	36