

SpotCell Cable Length and Proper Installation

SpotCell Cables

The standard SpotCell system ships with 25m of quad shielded, solid copper core RG6 cable. For an installation requiring a longer cable run, either multiple SpotCell cables can be connected together or one longer cable can be ordered in its place. It is recommended that SpotCell installations use only cables purchased from Spotwave.

Impact of Cable Types & Cable Loss

When connecting the SpotCell DU and CU, it is important to use the correct coax cabling for a given RSSI at the site. An inappropriate cable may result in inadequate coverage as well as poor call quality. Below are non-plenum and plenum rated cable length recommendations for SpotCell applications.





RSSI bars at handset ¹		Cable Options ² (* indicates coverage may be reduced)				
		25m	50m	75m	100m	150m
-80 dBm		1 RG6	2 RG6 or 1 RG11	1 RG6 + 1 RG11	2 RG11	3 RG11 *
-85 dBm		1 RG6	2 RG6 or 1 RG11	1 RG6 + 1 RG11	2 RG11	Not recommended
-90 dBm		1 RG6	2 RG6 or 1 RG11 *	1 RG6 + 1 RG11 *	2 RG11 *	Not recommended
-95 dBm		1 RG6	1 RG11	Not recommended	Not recommended	Not recommended

Table 1 Non-Plenum rated cable types and length in relation to DU RSSI.







RSSI bars at handset ¹		Cable Options ² (* indicates coverage may be reduced)			
		25m	50m	75m	100m
-70 dBm		1 RG6	2 RG6 or 1 RG11	1 RG6 + 1 RG11	2 RG11
-75 dBm		1 RG6	2 RG6 or 1 RG11	1 RG6 + 1 RG11	2 RG11 *
-80 dBm		1 RG6	1 RG11	1 RG6 + 1 RG11 *	Not recommended
-85 dBm		1 RG6	1 RG11	Not recommended	Not recommended
-90 dBm		1 RG6	1 RG 11 *	Not recommended	Not recommended
-95 dBm		1 RG6 *	Not recommended	Not recommended	Not recommended

Table 2 Plenum rated cable types and length in relation to DU RSSI.

¹ 4 bars in this scenario represent the maximum number of bars seen on a mobile handset.

² As a minimum, a SpotCell installation must use either a standard 25m RG6 or 50m RG11 cable in order to be compliant with FCC emissions requirements.

Spotwave Wireless Inc.