					F Ser	ies ABS W	Viring	ABS Type – MRAABSN	
99-03 Single Spark			04-05 Dual Spark						
CS GS Pin	Dakar Pin	Color	Pin	Dakar Pin	Color	Signal	Direction	Signal Description	
1	1	None	1	1	Ws/Sw	SEHE	I/P	Rear Wheel Sensor B9194 via Pin 2 of X9194	
1	-	None	-	-	113/011	OLITE	17 1		
3	3	Rt	3	3	Ws/Br	SEHA	I/P	Rear Wheel Sensor B9194 via Pin 1 of X9194	
6 7	6 7	None Gn	67	6 7	Ge/Rt Ge/Br	SEVE SEVA	I/P I/P	Front Wheel Sensor B9193 via Pin 2 of X9193 Front Wheel Sensor B9193 via Pin 1 of X9193	
21	10		21	10				CD To V0001 Din 10 Doob Doob Lown Driver	
<b>21</b> 11	<b>10</b> 11	Ws/Ge Br/Sw	<b>21</b> 11	<b>10</b> 11	Ws/Ge Br/Sw	ABSW DIAG	O/P Bi	GD To X9001 Pin 10 – Dash – Dash Lamp Driver To X9397 and Pin 1 of X9590 to BMSC	
12	12	Gn/Gr	12	12	Gn/Gr	54F	I/P	From Rear Brake Switch S9052 via Pin 1 of X9052	
13	13	Sw/Gn	13	27	Sw/Gn	TAST	I/P	From S9195 ABS On/Off Switch via Pin 2 of X9195	
14 15	14 15	Gn/Ws Gn	14 15	14 15	Gn/Ws Gn	54H 15U	I/P I/P	From Front Brake Switch S9051 via Pin 1 of X9051 From X9450 & Ignition Switch – Ignition on sense	
16	16	Br	16	16	Br	31	17 1	To X9231 – Batt – Ground	
17	17	Rt	17	17	Rt	30		From X9230 – Battery + Main Power	
18	18	Rt	18	18	Rt	30		From X9230 – Battery + Main Power	
19	19	Br	19	19	Br	31		To X9231 – Batt – Ground	
24		Ge	24	24	Ge	ТАСНО	O/P	To X9001 Pin 3 – Dash	
Note – BMW has updated the 99-03 F650GS diagrams to show the difference in ABSW signal pins between GS & Dakar									
<b>Color Code Notes</b> The early BMW wiring diagrams have errors for the signals below									
Br – Brown Rt – Red					Pin 13 is the input for the on/off switch on the SS & Pin 27 on the DS				
Ge – Yellow Sw – Black			(			Pin 13 is not used on the CS as there is no ABS On/Off Switch			
Gn – Green Ws – White			e		Pin 21 is t	Pin 21 is the output to the Dash Lamp for CS and GS, Pin 10 on the Dakar			
Gr – Grey	<u> </u>		ABS Lamp Disable - Loop Pin 16 to 10/21, Speed Sensor to Dash - Loop Pin 3 to 24						