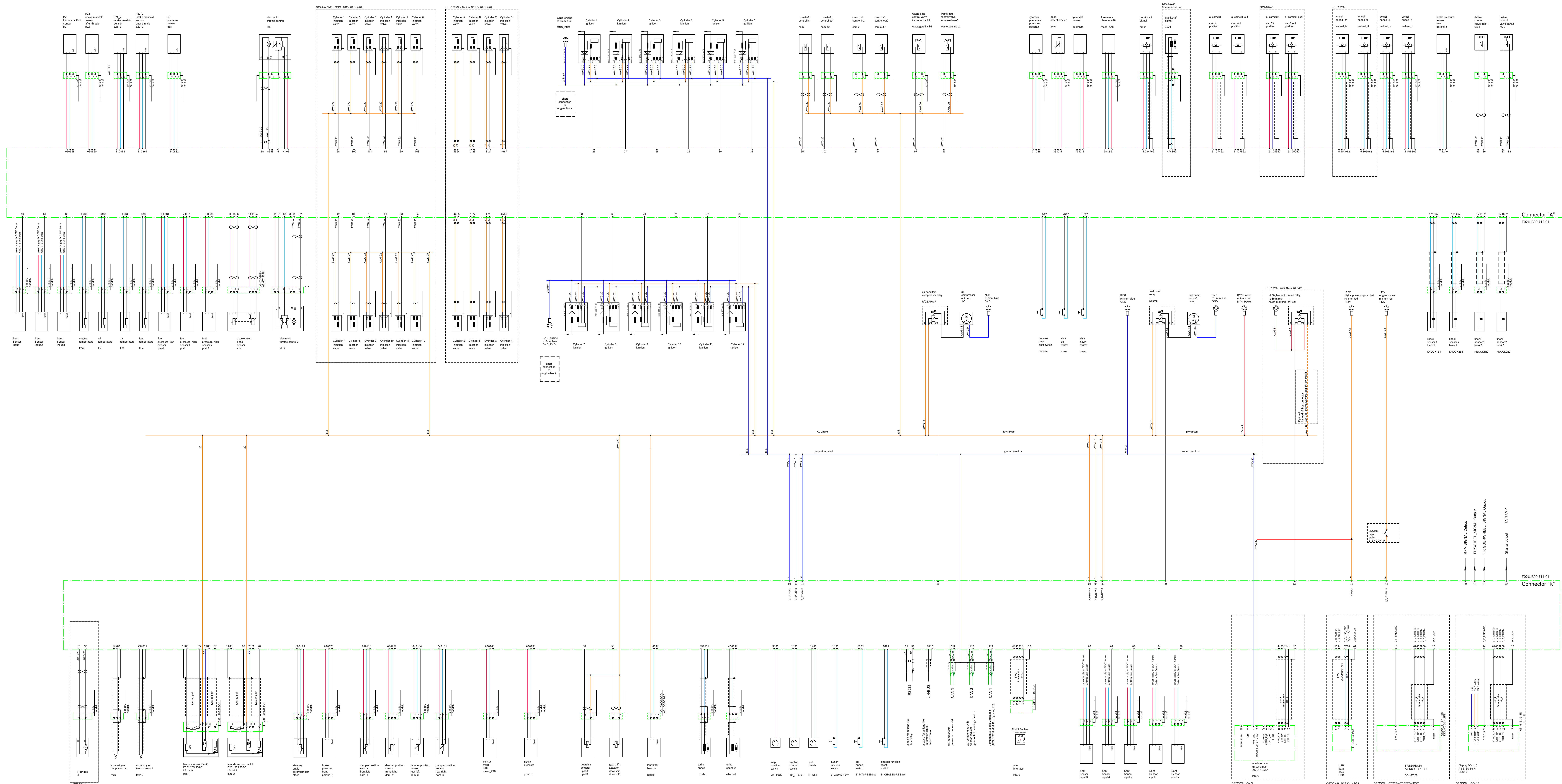


MS6.X EVO Basic Wiring

IMPORTANT!!!

The maximal total resistance of the wiring line is limited to assure proper functionality of the component. The worst case value for this resistance including the ECU resistances is 365 mΩ. The value comprises the resistance of the lines, the resistance of the conductor pins inside the ECU and the contact resistances of all of the electrical connector pins in the line from the main relay to the ground terminal of the battery. The temperature of the harness and the ECU have to be considered for the calculation of the worst-case resistances, respectively. The maximal total resistance of the harness can be split up into two parts: the resistance of the ECU harness whereas the ratio of the two parts is not crucial but eventually given by the ECU design.

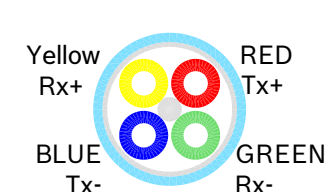


- ∞ - twisted / twisted pair
- ung** : - alle nicht bezeichneten Leitungen sind auf AWG 24 ausgelegt
 - kleine Buchstaben sind unterstrichen
 - rc = Ringverbinder
 - Ethernetkabel mit Spec. CAT5 verwenden
 - Firewirekabel nach Standard IEEE1394
 - jede CAN Verbindung muss mit 60Ω abgeschlossen sein
 - bei USB und Ethernetleitung unbedingt auf Paare achten
 - Ethernetverkabelung muss separat geführt werden
 - Kabelqueranschnitte müssen nach Bedarf angepasst werden

- all not marked wires are AWG24
- small letters are underlined
- rc = ringwire
- use ethernet cable CAT5
- firewire cable as spec IEEE1394
- all CAN networks must be terminated with 60Ω
- please respect strictly the pairs while using datawires like USB or Ethernet
- ethernet wires must be wired separately
- wire diameters must be adapted depending on usage

CAUTION!!		
Wire gauges depends on the applied wire quality labeled dimensions refer Raychem SPEC44A /55A		
AWG	METRIC	CARRYING AMPS
30	0.06mm ²	3.0
28	0.09mm ²	4.0
26	0.15mm ²	5.5
24	0.25mm ²	7.5
22	0.40mm ²	10.0
20	0.60mm ²	13.0
18	1.00mm ²	17.5
16	1.20mm ²	20.0
14	2.00mm ²	28.0
12	3.00mm ²	37.0
10	4.50mm ²	53.0
8	9.00mm ²	78.0

Ethernetwire
4x AWG24



Min bend radius:
dyn: 47mm
stat: 24mm

[illegible]

	F02U.S70.002-01	Basisanschluss MS6.X EVO
Bestell-Nummer order number	Entwurfszeichnung schematic	Benennung part name