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SUPERCHARGER CABLE [LIQUID COOLED]

Cable Components

(A) Insulated Power Conductors

(12X) 10 (105/30) Bare Copper Nominal .109"(5.46mm)
.010"(.25mm) Wall ETFE Insulation
Nominal Diameter .129"(3.28mm)
Color Code: (6) Black (6) White

(4X) 14 (41/30) Bare Copper Nominal .070"(1.78mm)
.010"(.25mm) Wall ETFE Insulation
Nominal Diameter .090"(2.29mm)
Color Code: (2) Black (2) White

(B) Feedback/Control Cable Components

2X 4/C Group 24 AWG [PLAN]
24(7/32) BCW NOM OD .024"(.61mm)
.008"(.20mm) Wall ETFE Insulation NOM OD .040"(1.016mm)
O/A 24(7/32)TCDW, M/A/FI, Skived PTFE NOM OD .107"(2.72mm)
Color Code: Group (1) Red (2) Blue

2X 3/C Group 24 AWG [PLAN]
24(7/32) BCW NOM OD .024"(.61mm)
.008"(.20mm) Wall ETFE Insulation NOM OD .040"(1.016mm)
O/A PTFE Binder NOM OD .092"(2.34mm)
Color Code: Group (1) Red (2) Blue

(C) X2 16 AWG Insulated Ground Wires
16(26/30)TC NOM OD .058"(1.47mm)
.008"(.20mm) Wall ETFE Insulation NOM OD .078"(1.98mm)

(D) X2 20(10/30)BC Uninsulated Ground Wires

(E) X2 HR Polymer Tube
Dimensions: .170"(4.3mm) ID X .260"(6.6mm) OD

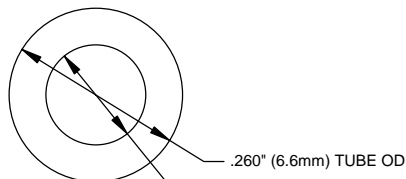
(F) Interstitial Glass Fillers as required

Overall Cable Construction

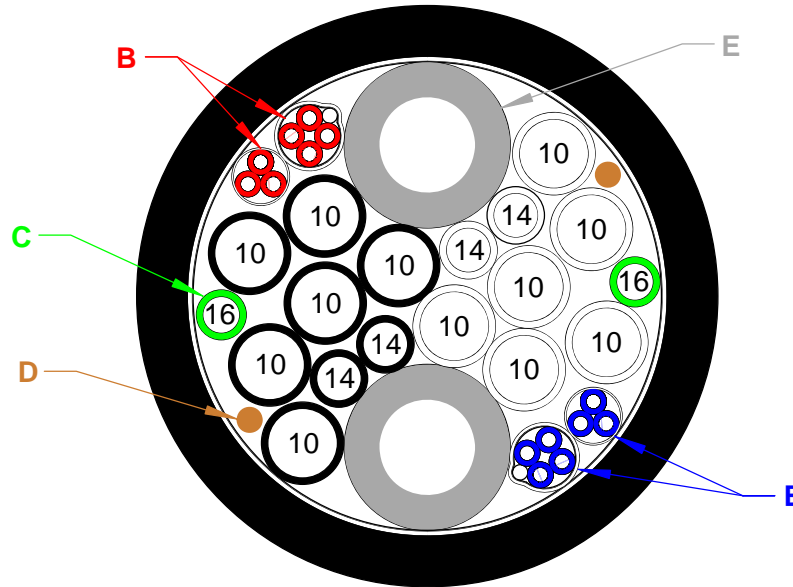
Planetary Cable Components A, B, C, D, E & F
Overall Polyester backed Aluminum Foil Shield
Overall PTFE Binder
Overall .084" (2.13mm) Thermoplastic Rubber Jacket
Nominal Cable Diameter .911"(23.2mm)



Scale 1:1



HR Polymer Tube Detail



Scale 5:1

NOM OD .911" (23.2mm)
.084" (2.13mm) Outer Jacket Wall Thickness

Wire Size	OD	CMA	mm ²	#/PL	CMA	mm ²
10 (105/30) B C S B	0.109	10.500	5.32	6	63.000	31.92
14 (41/30) B C S B	0.07	4.100	2.08	2	8.200	4.16
Total per Polarity					71,200	36.08

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REVISIONS

REV	Date	Description
01		Initial Issue
02		Add 6X 20 AWG BC Uninsulated Ground Wires
03		Correct Component A details to include 14AWG wires
04		Removed note regarding all white color for proto
05		Changed HR Tube Diameter to 260" & Overall NOM OD
06		Changed configuration, added groups, Ins. Ground & O/A NOM OD

TITLE
**Liquid Cooled Super Charger Cable
Prototype Production Design**

SIZE	CAGE CODE	DWG NO	REV
A	1T240	JMW-TESLA-LC-SUPERCHARGERCABLE-REV06	06
SCALE	As Noted	SHEET	1