

CHARGING - CABLE FOR LiPo-CHARGERS WITH 6S-BALANCING-PORT

LiPo-charger with 6S-balancing-port can be used as represented in this document.

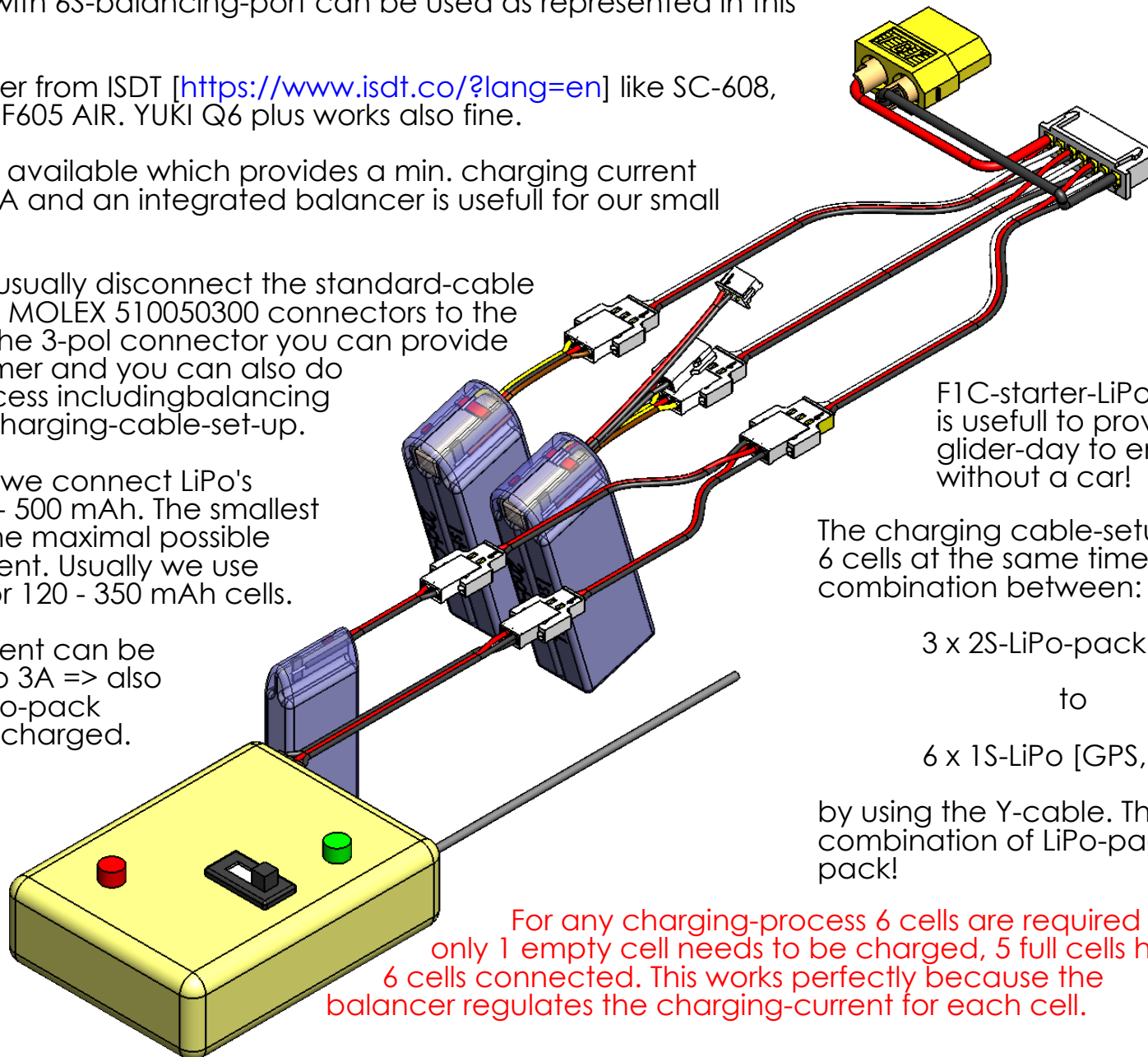
We use charger from ISDT [<https://www.isdt.co/?lang=en>] like SC-608, Q6 nano and F605 AIR. YUKI Q6 plus works also fine.

Every charger available which provides a min. charging current of 100 - 200 mA and an integrated balancer is useful for our small LiPo-cells.

As shown we usually disconnect the standard-cable and install the MOLEX 510050300 connectors to the 2S-LiPo's. Via the 3-pol connector you can provide 7,4 V to the timer and you can also do charging-process including balancing by using our charging-cable-set-up.

On the cable we connect LiPo's between 150 - 500 mAh. The smallest LiPo defines the maximal possible charging-current. Usually we use 100-200 mA for 120 - 350 mAh cells.

Charging current can be adjusted up to 3A => also F1C-starter LiPo-pack can easily be charged.



F1C-starter-LiPo-pack with 2 - 3 Ah is useful to provide energy on the glider-day to enable on-field charging without a car!

The charging cable-setup allows to charge max. 6 cells at the same time. This can be done in a combination between:

3 x 2S-LiPo-pack [timer]

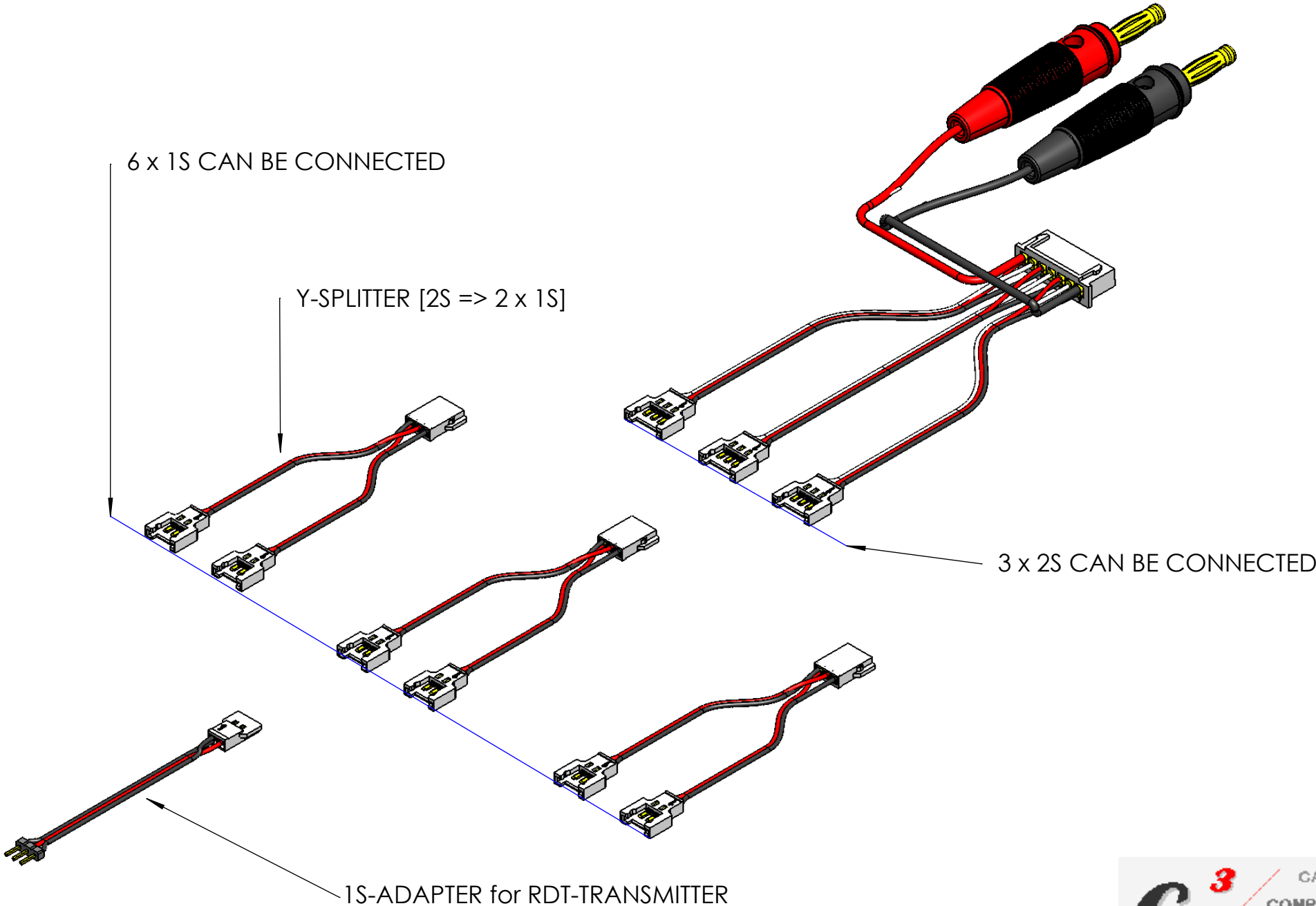
to

6 x 1S-LiPo [GPS, ALTI, FLASHER, ...]

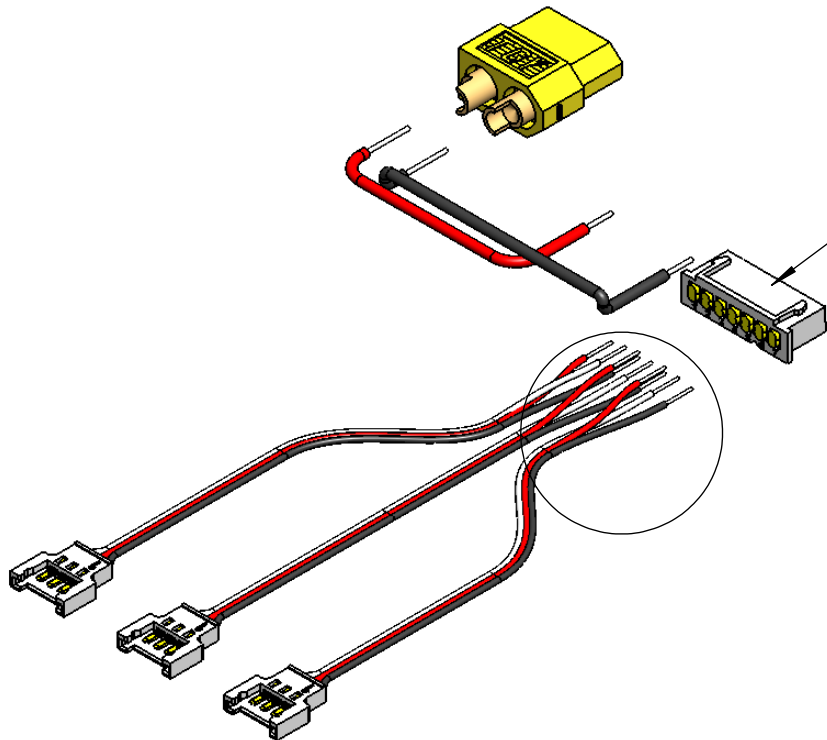
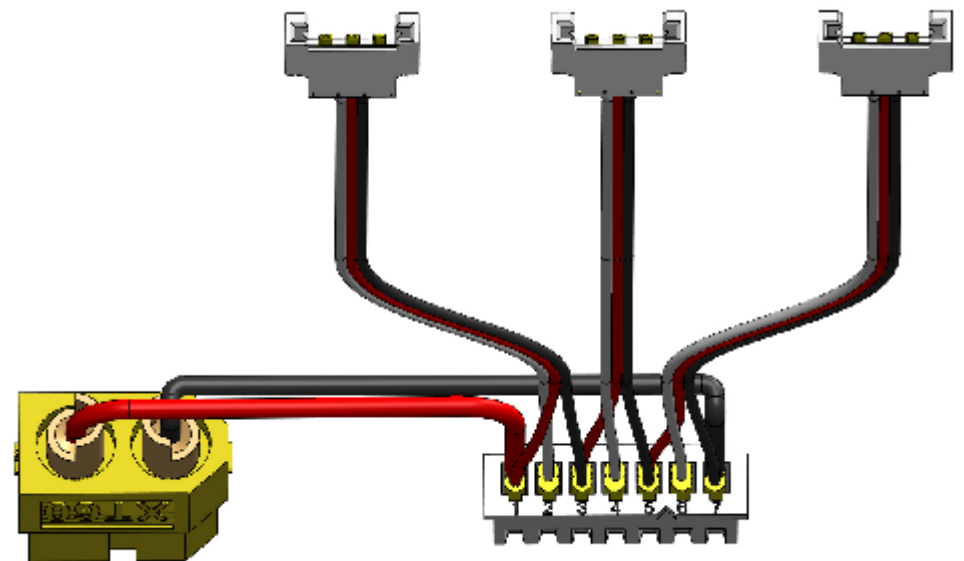
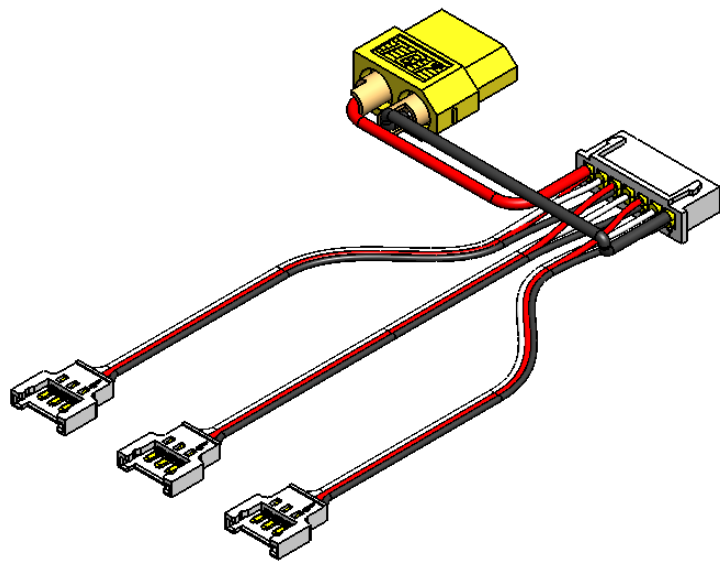
by using the Y-cable. The charger recognize the combination of LiPo-packs as 1 single 6S-LiPo-pack!

For any charging-process 6 cells are required to be connected. E.g.: If only 1 empty cell needs to be charged, 5 full cells have to be added to have 6 cells connected. This works perfectly because the balancer regulates the charging-current for each cell.

EXCAMPLE SET-UP WITH BANANA-CONNECTORS

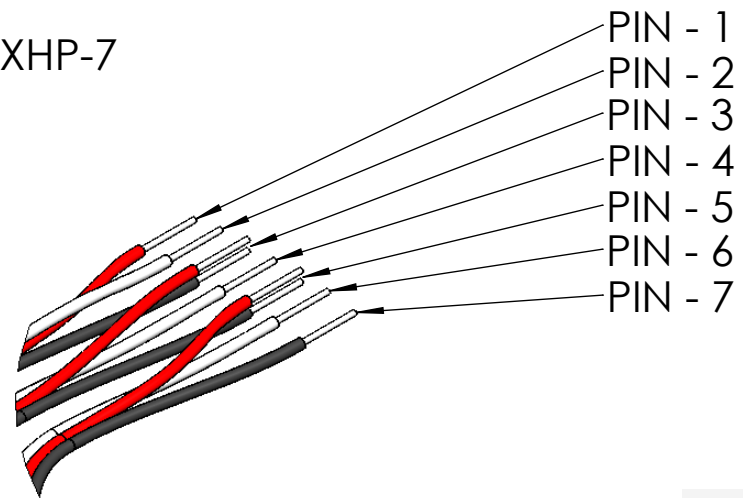


6S - CHARGING - CABLE [XT60]



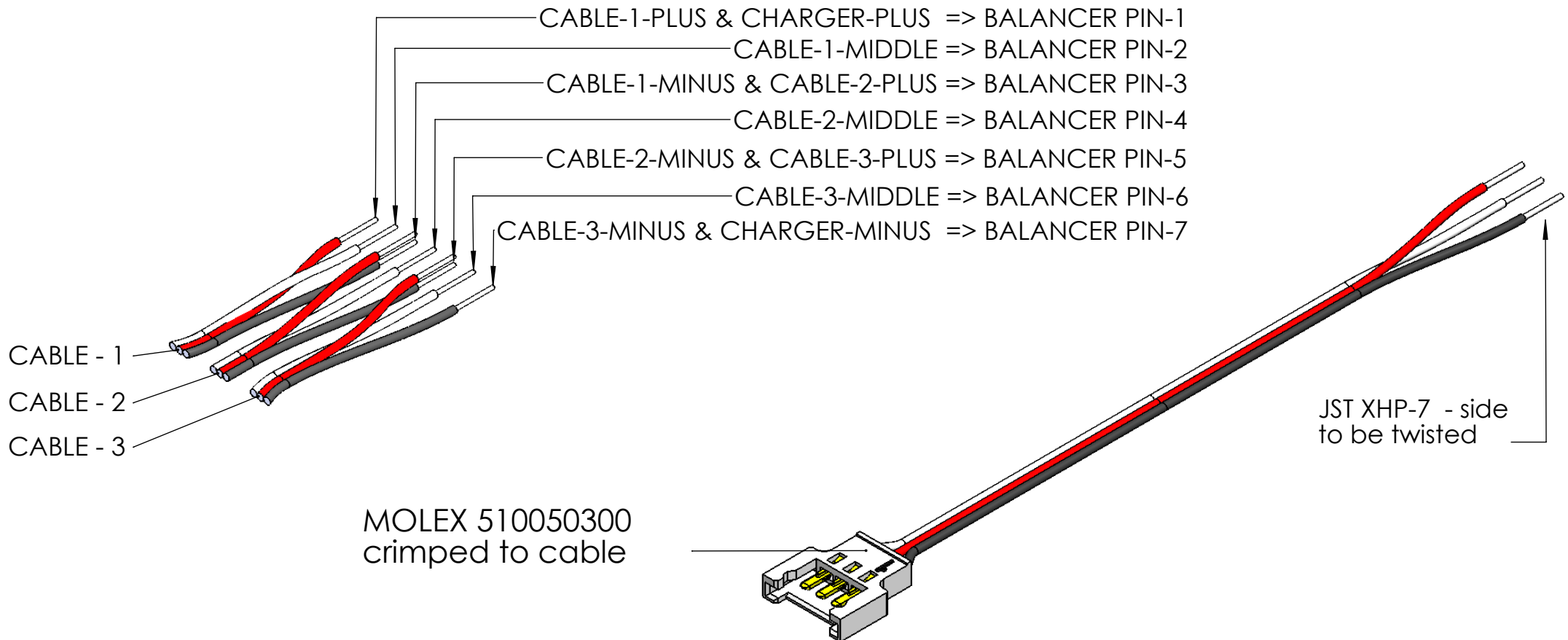
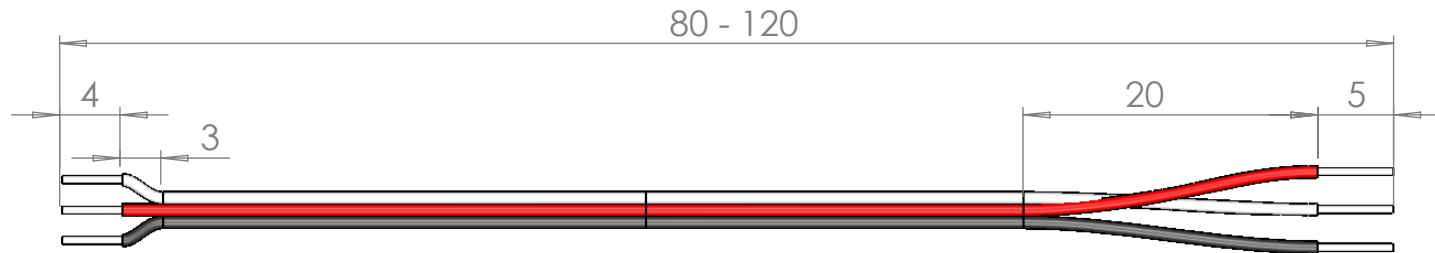
JST XHP-7

PIN-SETUP BALANCER

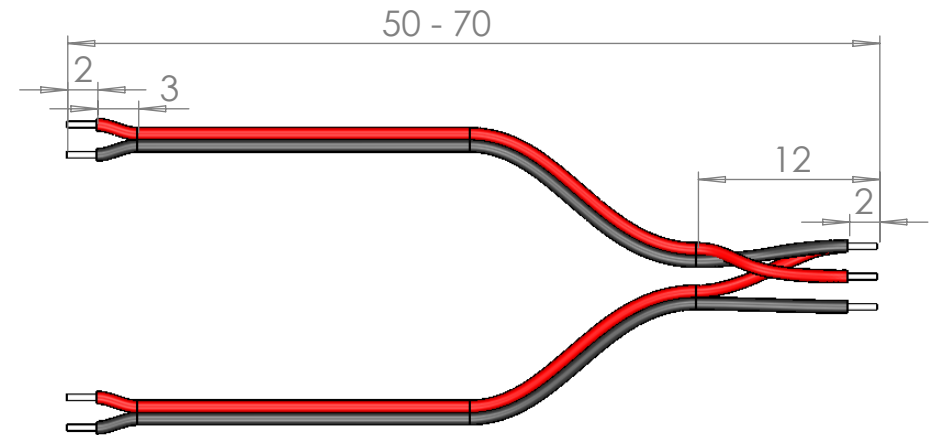
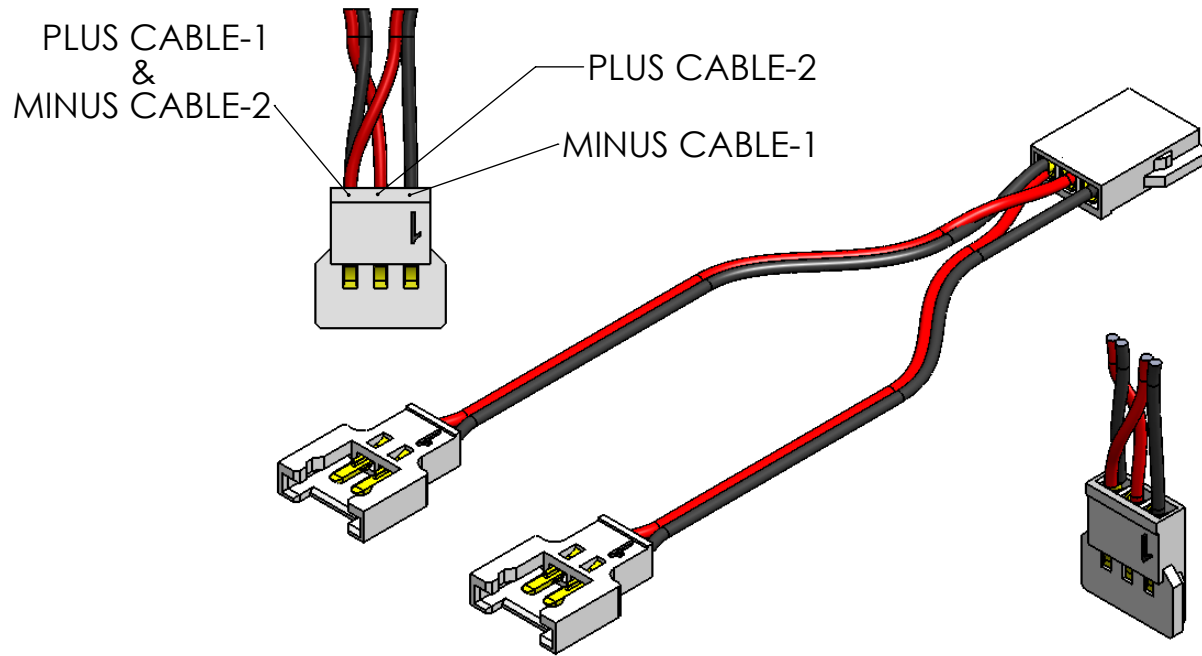


- PIN - 1
- PIN - 2
- PIN - 3
- PIN - 4
- PIN - 5
- PIN - 6
- PIN - 7

3 x CHARGING - CABLES WITH MOLEX 510050300 TWISTED TOGETHER

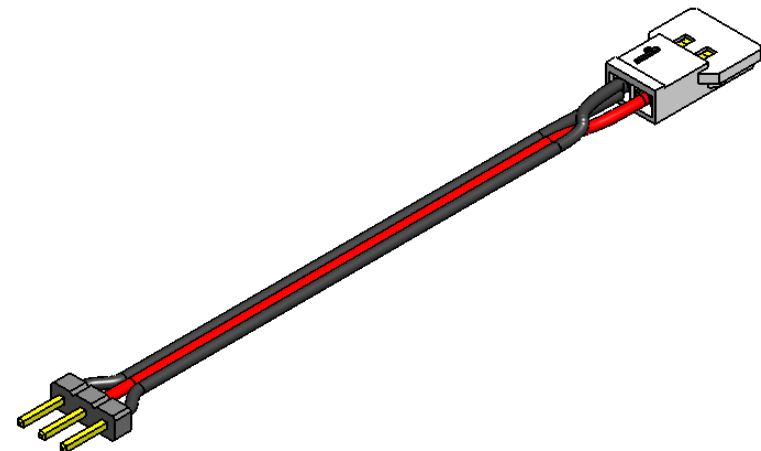
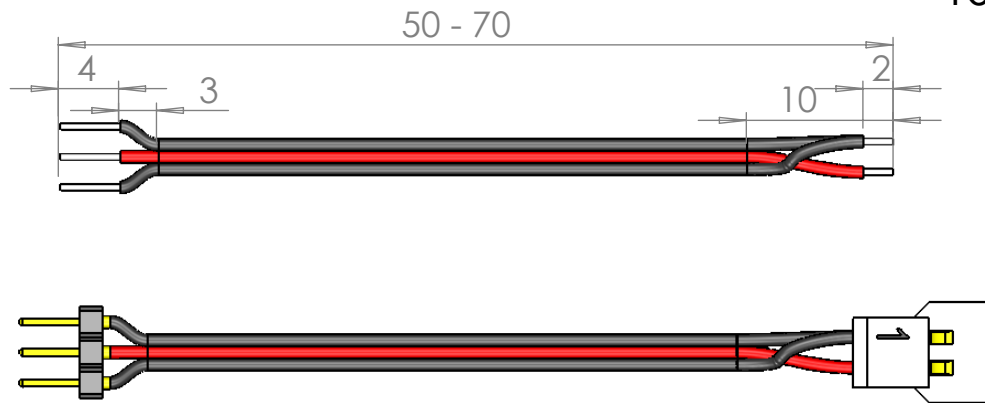


Y - SPLITTER [2S => 2 x 1S] & 1S-CHARGING-ADAPTER for RDT-TRANSMITTER



Y-SPLITTER [2S = 2 x 1S]

1S-CHARGING-ADAPTER for RDT-TRANSMITTER



READY SYSTEMS

ISDT H605 AIR

ONLY CHARGING AND DISCHARGING
CONTROL & SET-UP VIA BLUETOOTH/SMARTPHONE
ALL CONNECTIONS ARE DONE INSIDE THE HOUSING
=> NO EXTRA CABLE HAS TO BE PLUGGED IN

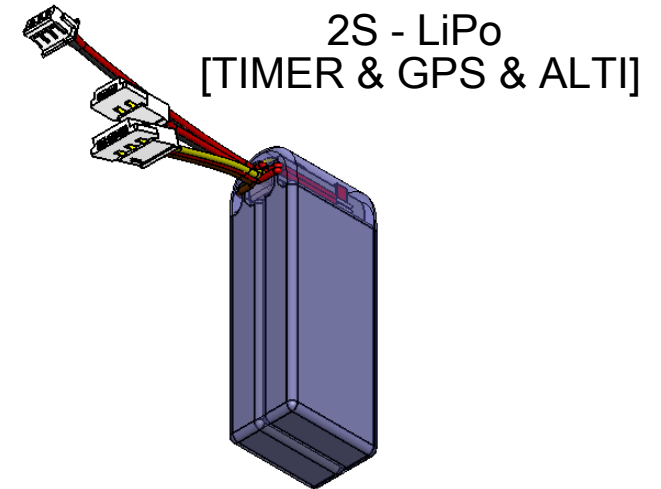
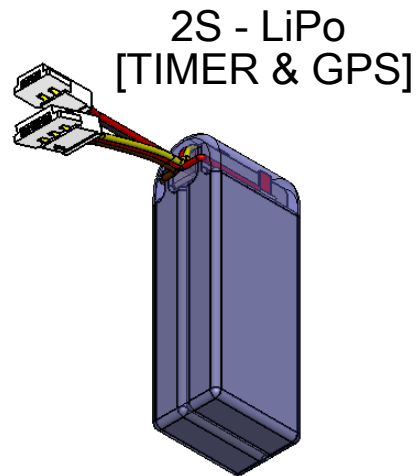
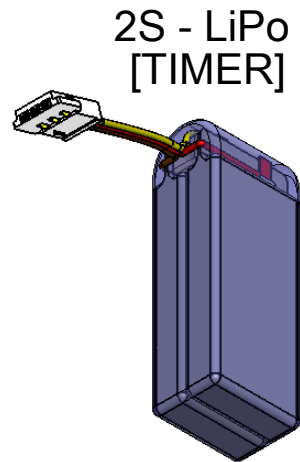
YUKI Q6plus
SIMILAR TO
ISDT SC 608



ISDT SC 608

CHARGING, DISCHARGING & STORAGE
CONTROL & SET-UP VIA ONBOARD COLOR DISPLAY

LiPo - POWER-SUPPLY - FRONTPART F1A & F1C

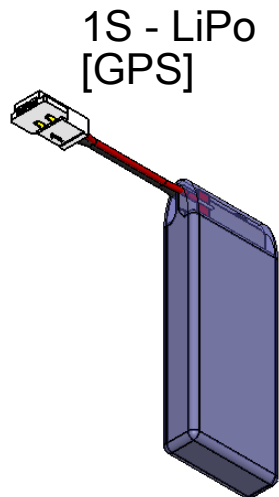


CONNECTORS & CABLE

TIMER - CONNECTION: MOLEX 510050300 [female]
3-wire-cable from KSTM - SERVO [3 x 0,08 mm² outside 0,8 mm]

GPS - CONNECTION: MOLEX 510050200 [female]
2-wire-cable [2 x 0,08 mm² outside 0,8 mm]

ALTI - CONNECTION: JST ZHR-03 [female] ; only PIN-1 & PIN-2 used
ready crimped with cable; 3rd cable is cut



LiPo 2S

TURNIGY nano-tech 300mAh 2S 35-70C [HOBBY-KING] or similar; original wires taken off and personal configuration [3 different versions above] to be soldered and shrunk; isolating rubber to avoid short circuit and movement during engine-run in F1C!

LiPo 1S [GPS]

TURNIGY nano-tech 300mAh 1S 35-70C [HOBBY-KING] or smaller; original wires taken off and personal configuration [3 different versions above] to be soldered and shrunk; important to avoid short circuit and movement during engine-run in F1C!

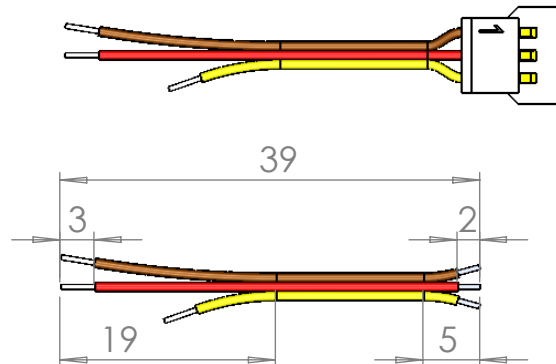
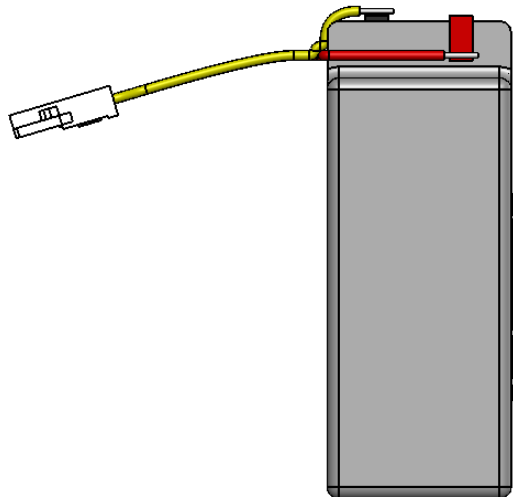
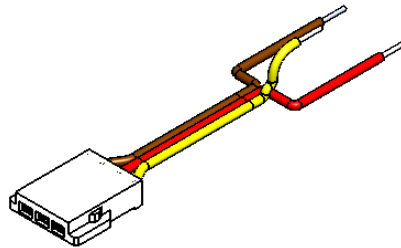
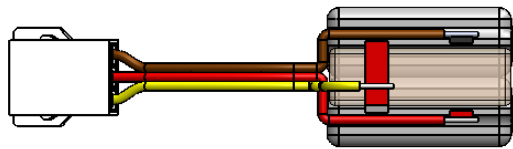
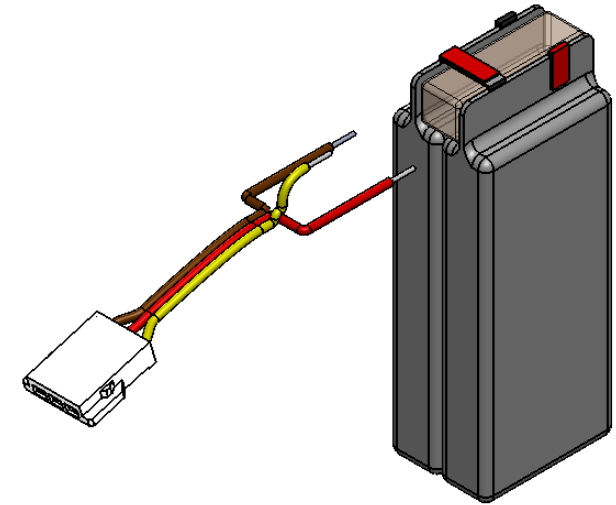
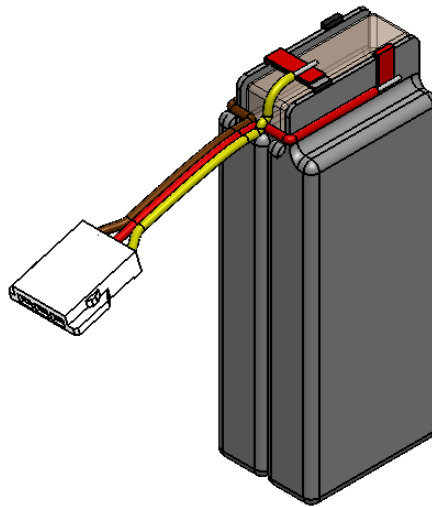
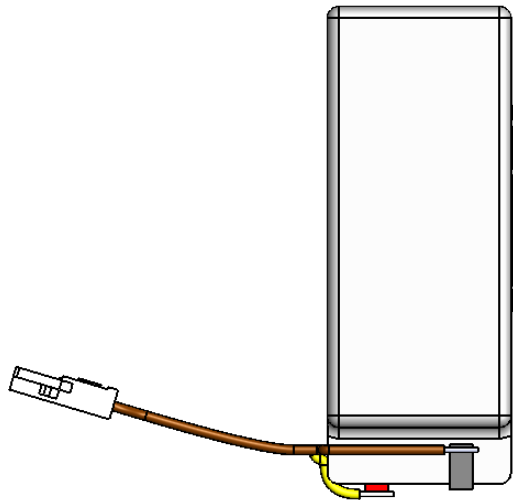
Ready configuration with MOLEX 510050200 [female] is available at HOBBY-KING in 2 different set-ups. Version B has to be used with our GPS-cable on easyCONNECT. CATHODE has to be on PIN-1 !!!.

If wrong set-up is delivered it can be changed.

WRONG POLARITY WILL KILL GPS-BEACON!!!



2S - LiPo [TIMER]

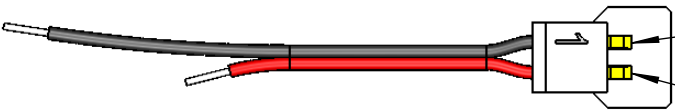
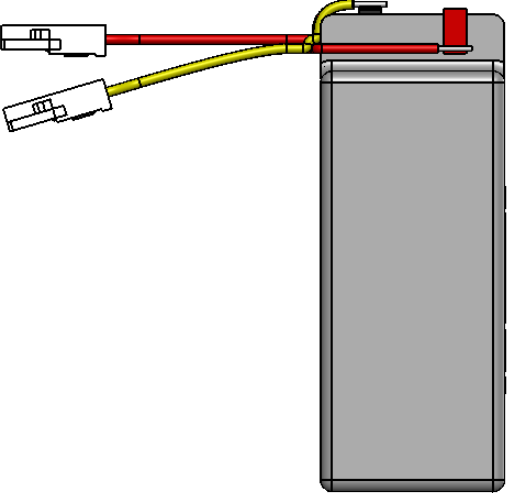
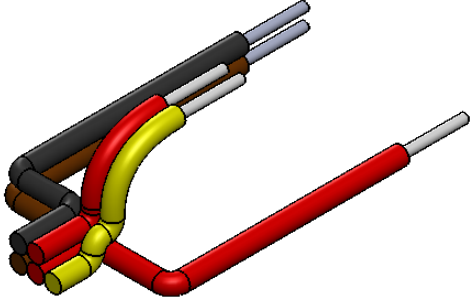
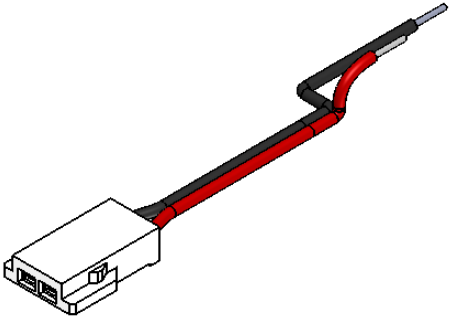
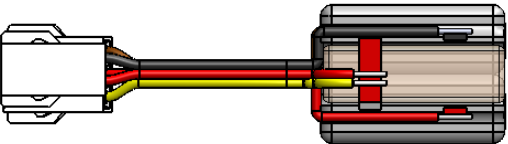
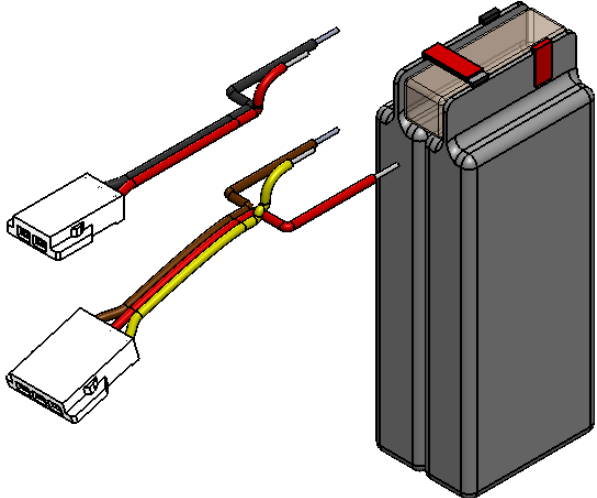
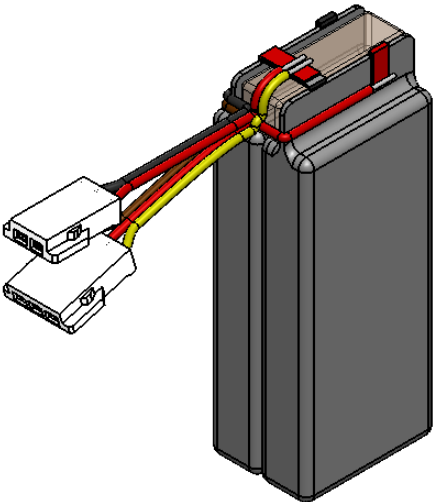
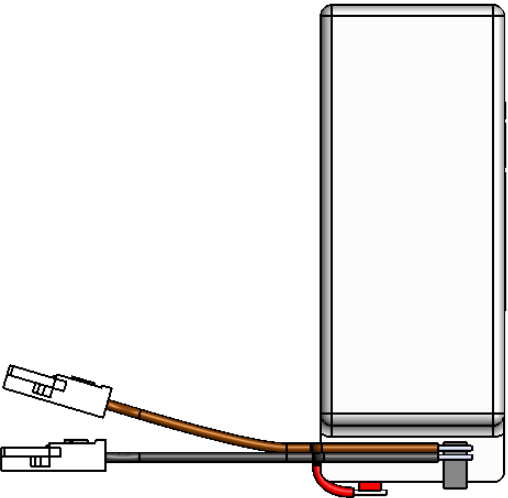


PIN-SET-UP used for ABERLENC-timer and TORLEIF-timer with booster [Schellhase, Müller und Fuss] => same charging cables and batterypacks can be interchanged!

PIN-SET-UP on MOLEX 510050300

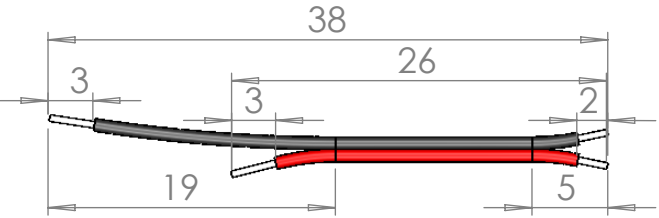
PIN	COLOR	VOLTAGE					
		-	7,4 V	+	3,7 V	-	
1	brown	-	7,4 V			-	3,7 V
2	red	+		+	3,7 V		
3	yellow			-	3,7 V	+	

2S - LiPo [TIMER+GPS]

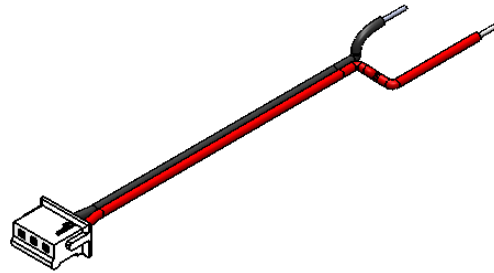
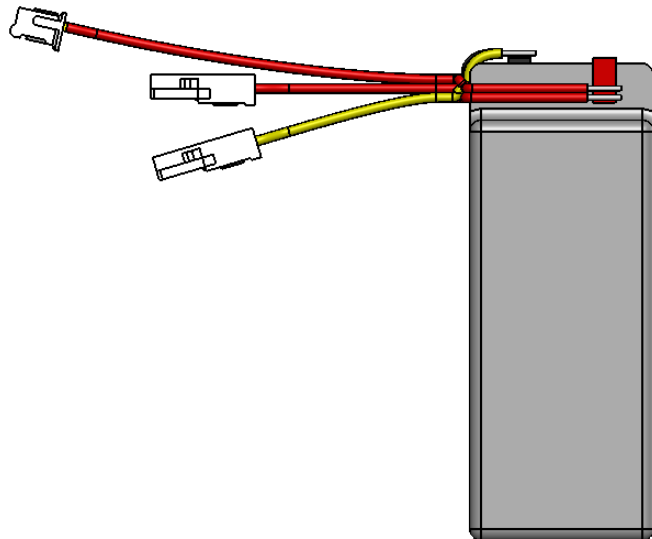
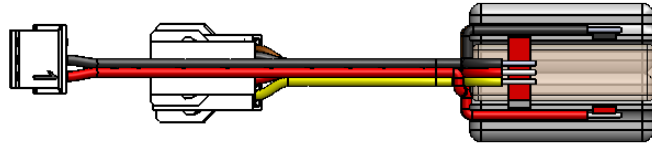
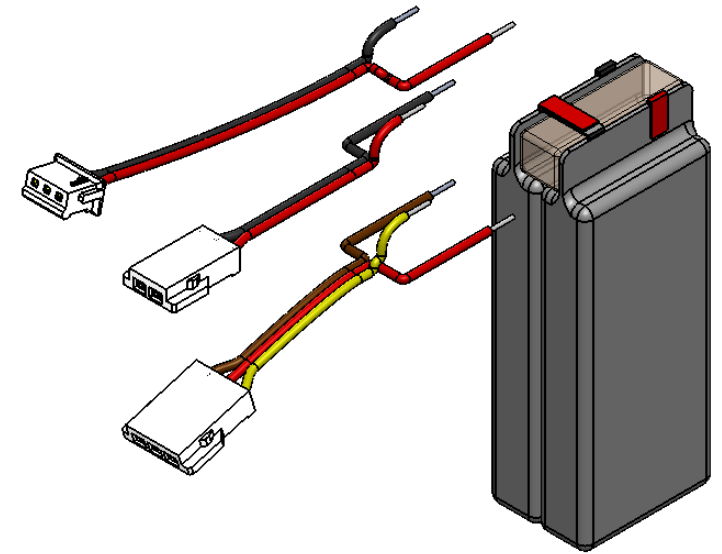
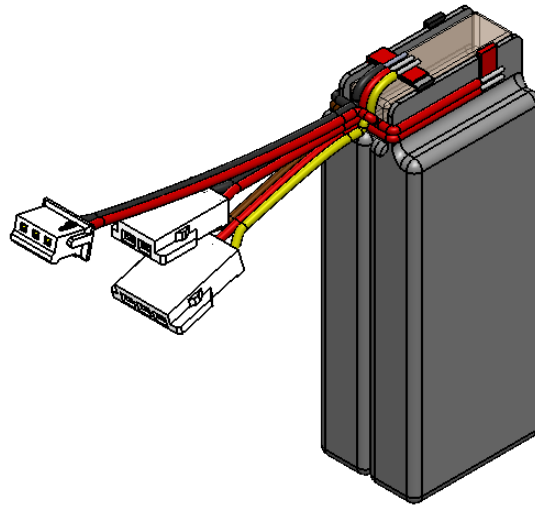
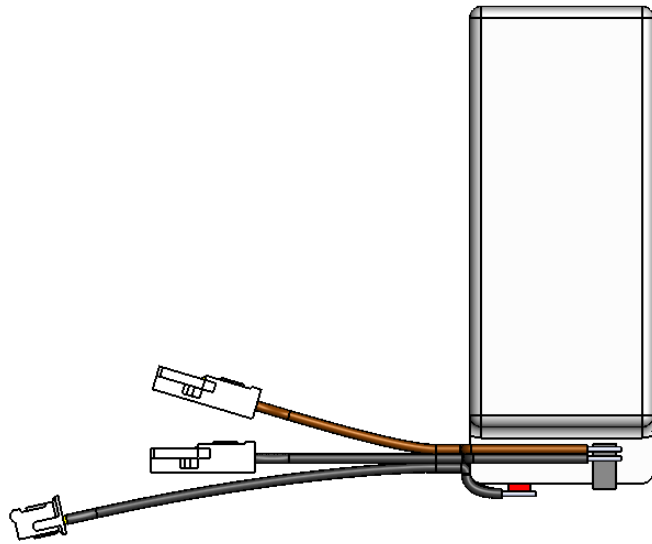


PIN-1 = CATHODE

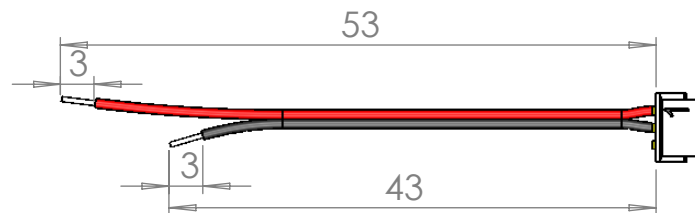
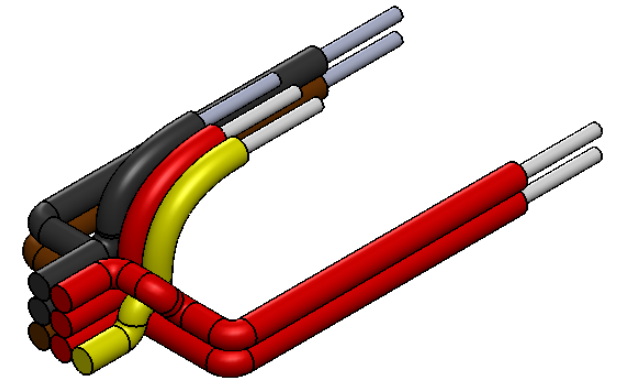
PIN-2 = ANODE



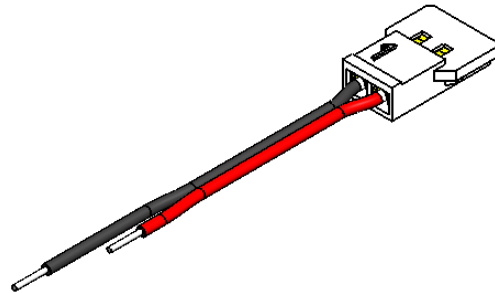
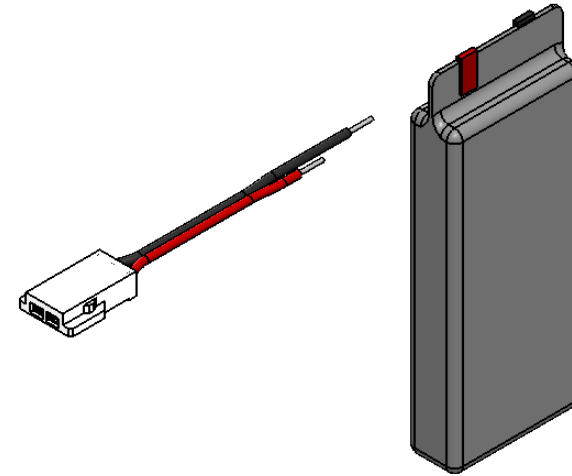
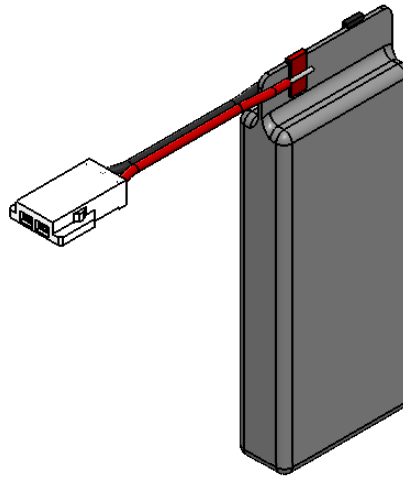
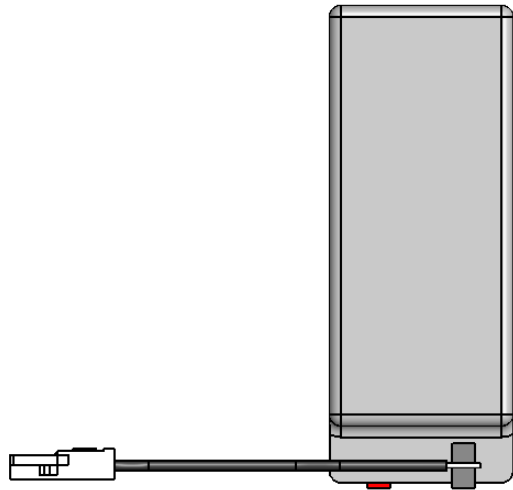
2S - LiPo [TIMER+GPS-ALTI]



Cable delivered with ALTI and ready crimped



1S - LiPo [GPS]



Ready configuration with MOLEX 510050200 [female] is available at HOBBY-KING in 2 different set-ups. Version B has to be used with our GPS-cable on easyCONNECT. CATHODE has to be on PIN-1. If wrong set-up is delivered it can be changed.
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