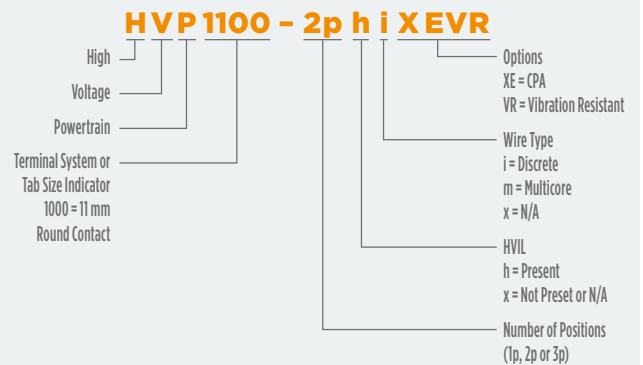# AMP+ HVP 1100

INTRODUCTION

Finger proof, touch safe, one position high current connectors and headers AMP+ 1100 are designed for flexibility with the options needed for various hybrid and electric vehicle device applications.
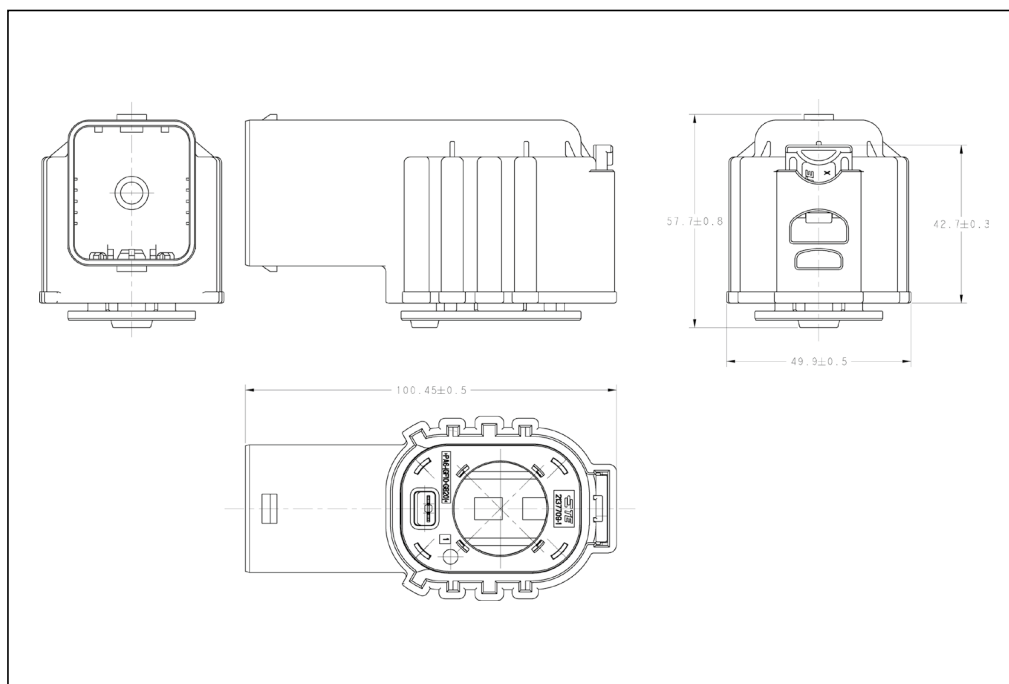
With a current carrying capability up to 300 A at 85° C, and a cable range between 50 mm^2 and 950 mm^2 individually shielded wire, the AMP+ HVP 100 can be used in many high voltage applications. The system provides an integrated internal HVIL for package size optimization.

Naming Convention
HVP 1100 Connector Family

H V P 1100 – 2p h i X EVR

High

Voltage

Powertrain

Terminal System or
Tab Size Indicator
1000 = 11 mm
Round Contact

Options
XE = CPA
VR = Vibration Resistant

Wire Type
i = Discrete
m = Multicore
x = N/A

HVIL
h = Present
x = Not Preset or N/A

Number of Positions
(1p, 2p or 3p)

All specifications subject to change. Consult TE Connectivity for latest specifications.

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Technical Features

Pin Number:
1 (+2 HVIL)

Contact System:
11 mm Round Contact

Conductor Cross-Sections:
70 mm² according to USCAR-2
REV.5, USCAR37

Voltage Range:
750 VDC

Operation Temperature:
-40 °C up to 125 °C

Current Carrying Capacity:
300A @ 85 °C (0.9 DeRating)
ambient temperature

IP Rating:
Plugged: IP6k7, IP6k9k
Unplugged: IP2XB

HVIL:
Integrated, Internal

CPA:
Yes

Fire Classification:
HB

Vibration Level:
USCAR V1

Product Specification:
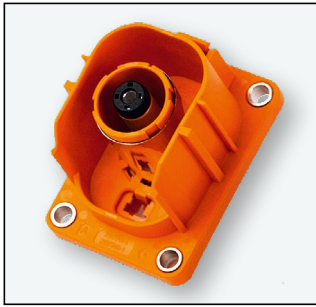108-101203

Application Specification:
114-101010
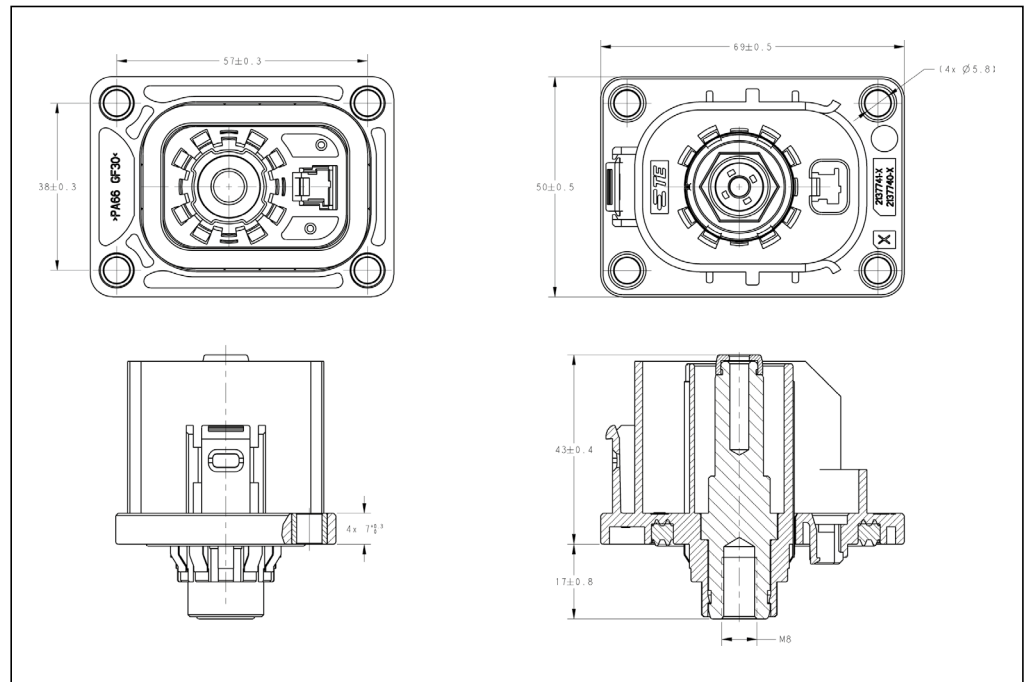
AMP HVP 1100 1phi XE Plug 90 deg

Drawing 2137704 *

AMP HVP 1100 1phi XE Plug 90 deg

Version (Cable Dimension)		Coding	Order Information
1*70 mm²	released	A	To be Ordered see drawing!
	in planning	B	
	in planning	C	
	in planning	D	
	in planning	E	
	in planning	F	

* Drawing Number is NOT the Order Number!

AMP HVP 1100 1phi XE Header

Drawing 2137740 *

Technical Features

Pin Number:
1 (+2 HVIL)

Contact System:
11 mm round contact

Conductor Cross-sections:
70 mm² according to USCAR-2
REV.5, USCAR37

Voltage Range:
750 VDC

Operation Temperature:
-40 °C up to 125 °C

Current Carrying Capacity:
300A @ 85 °C (0.9 DeRating)
ambient temperature

IP Rating:
Plugged: IP6k7, IP6k9k
Unplugged: IP2XB

HVIL:
Integrated, Internal

CPA:
Yes

Fire Classification:
HB

Vibration Level:
USCAR V1

Product Specification:
108-101203

Application Specification:
114-101010

AMP HVP 1100 1phi XE Header

	Coding	Order Information
released	A	
in planning	B	
in planning	C	To be Ordered see drawing!
in planning	D	
in planning	E	
in planning	F	

* Drawing Number is NOT the Order Number!