

## High Reliability Rectangular Plastic Connector

The REP connector is a multi pole sealed rectangular plastic connector which provides a quick, reliable and easy connection in all electronic applications: Railway, Industrial, Test & Measurement, Automotive and Defense markets.

The REP connector series uses the proven Hypertac<sup>®</sup> Hyperboloid contact technology which guarantees excellent reliability, even under high levels of shock and vibration. The REP connector is available in 2, 6 and 12 ways and uses one contact for 24-12AWG wire gauge. The REP can also be delivered as a pre-cabled solution according to customers' specifications.

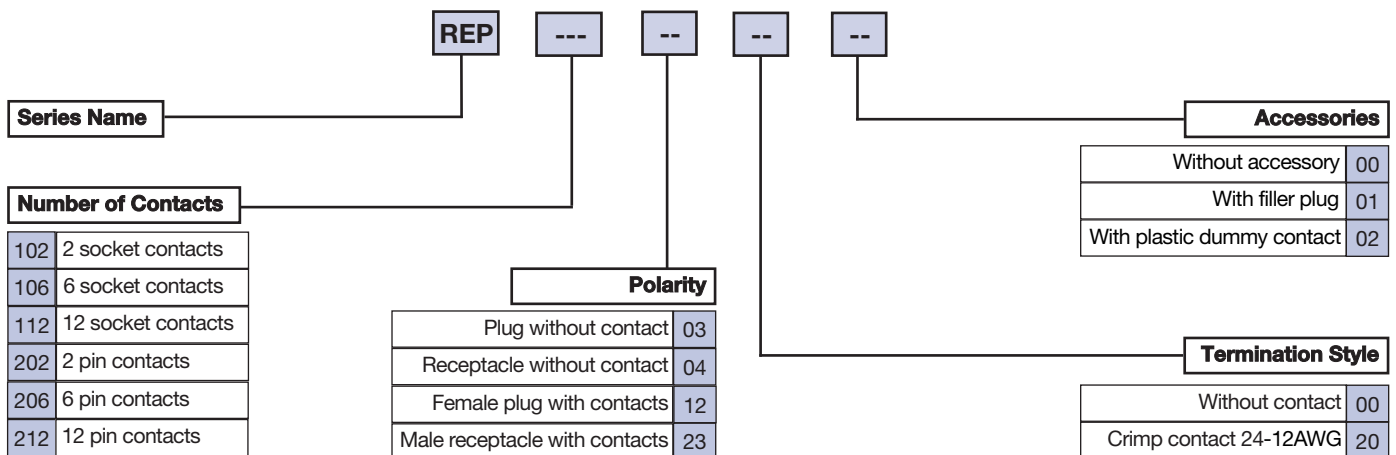
Other benefits of the REP series:

- Compliance with standards** >> UL94V0, EN 61-373, EN 50-124, NFF 61-030, NFF 16-101, NFF 16-102 (fire & smoke), materials in polycarbonate and back shell in silicone
- Cost saving** >> Only one contact for cables from size 0.50mm<sup>2</sup> to 2.5mm<sup>2</sup> (24-12AWG) according to EN 50306-2
- Ease of use** >> Polarised guides & 4 different configurations (cable to cable, clips, front and back panel mount)
- Safety** >> Plug finger proof IP2- and high withstanding voltage up to 2725V
- Long life cycle** >> 500 mating/unmating cycles: just push to mate, press & release to unmate
- Sealing** >> IP66 protection according to IEC/DIN EN 60529
- Reliability** >> Hyperboloid contact, high current rating supporting up to 13A, high level of vibrations resistance (40G, 5 hours)

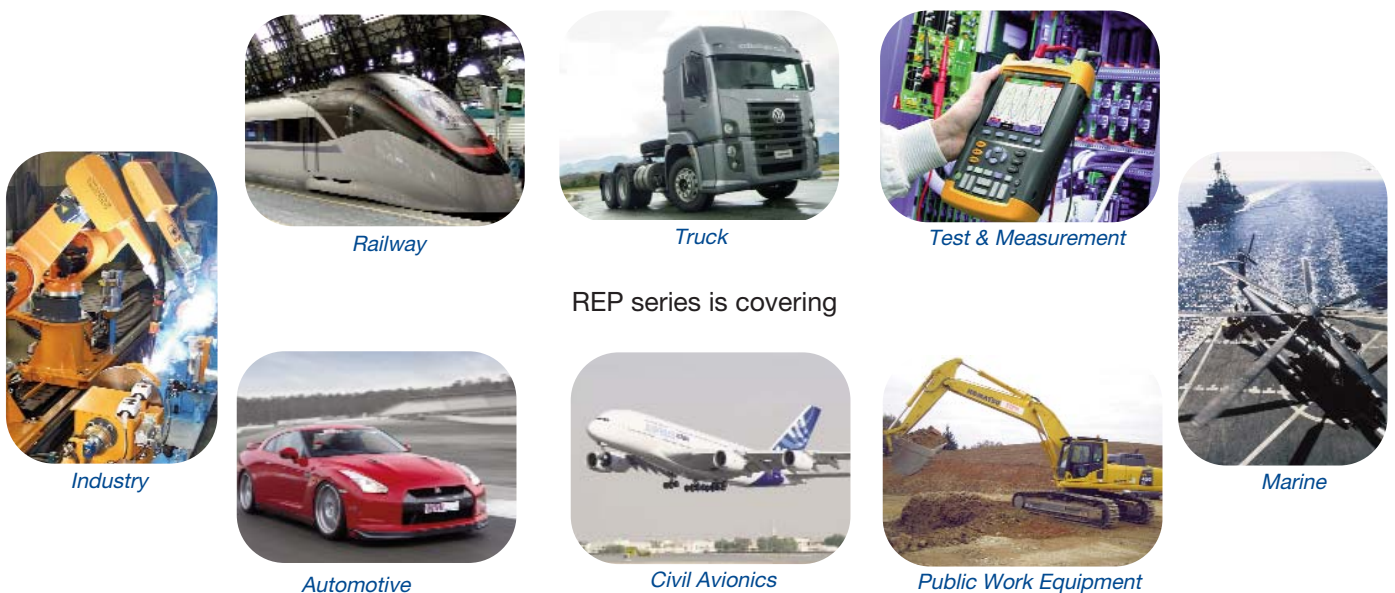
## Technical Characteristics

ELECTRICAL		MECHANICAL & MATERIAL	
Contacts	Ø 1.5mm (size 16)	Contact retention force	> 70 N
Withstanding voltage	2725V (EN-50124-1)	Mating cycles	> 500 cycles
Insulation resistance	≥ 5 x 10 <sup>3</sup> MΩ	Coding	3 configurations
Contact resistance	≤ 2.50 mΩ	Polarisation	180°
Voltage rating	230V (EN-50124-1) pollution degree 3 > 400V with plastic dummy contact	Weight (equipped with contacts)	2 ways: 17.3g 6 ways: 35.5g 12 ways: 62.8g
Current rating	13A (compliant 18A acc. to NFF 61-030)	Insulator	Thermoplastic
Contact plating	gold plating	Seal & grommet	Silicone
ENVIRONMENTAL			
Temperature range	-40° +100°C	Salt spray	> 96 hours
Fire & smoke standards	NFF 16-101 & NFF 16-102	Environmental level	IP66 , IP67
Vibration resistance	EN 61-373 cat. 2 (on boggie)		

## Ordering Information

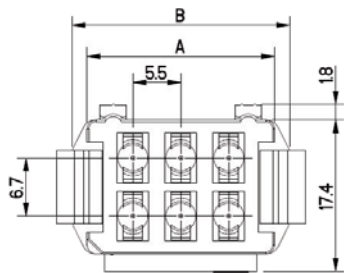
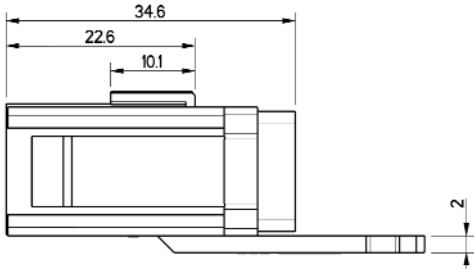


## Main Applications



## Drawings & Dimensions

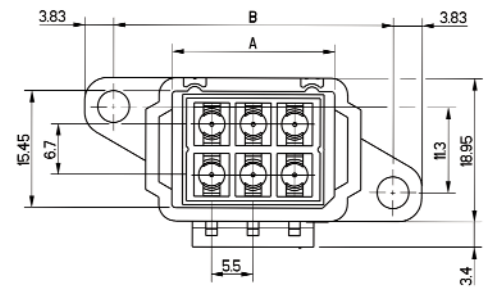
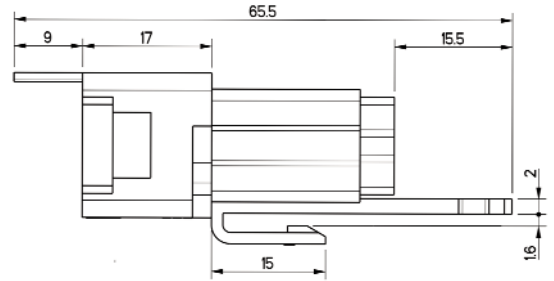
### Female Plug



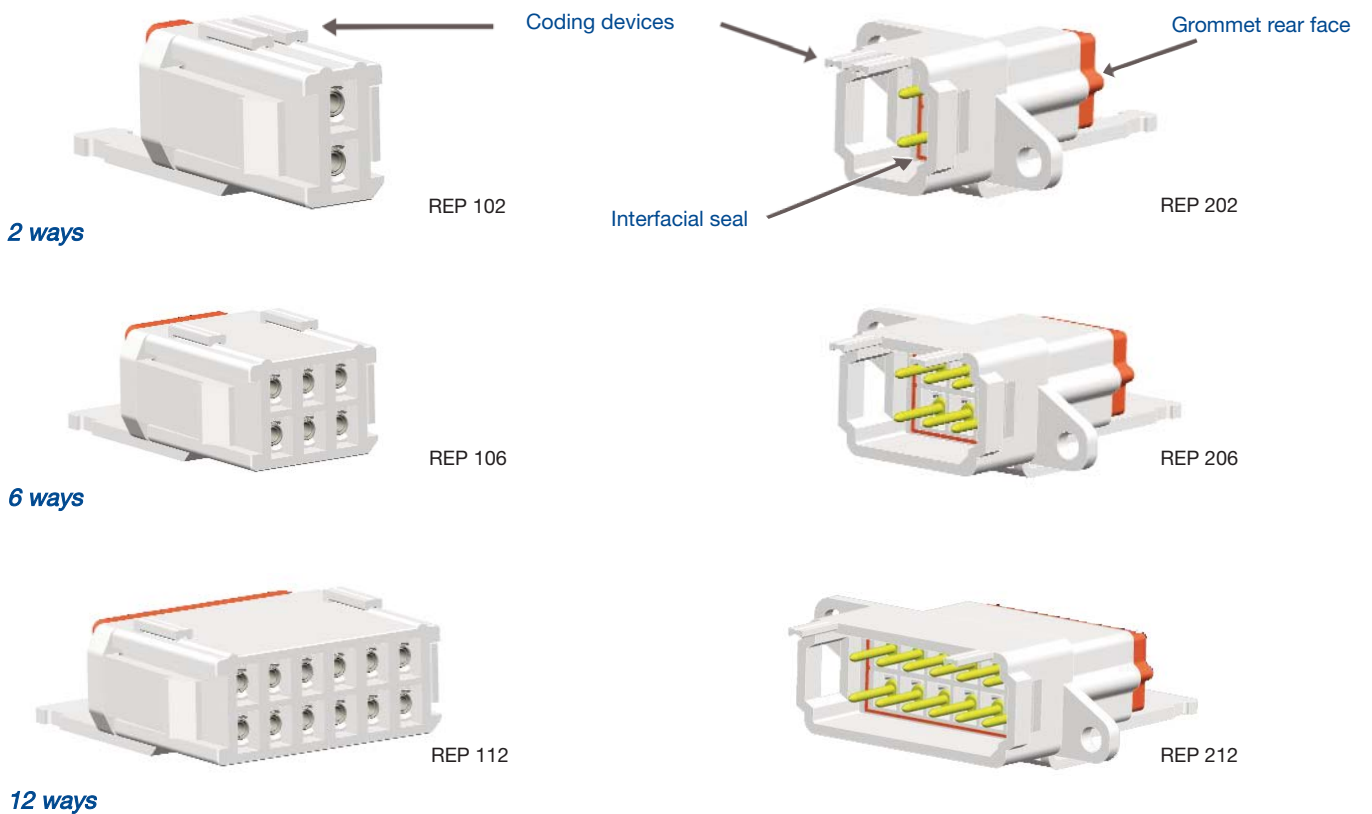
REP 1--	A	B
REP 102	10.5	14
REP 106	21.5	25
REP 112	38	41.5

Dimensions are in mm



### Male Receptacle



REP 2--	A	B
REP 202	10.65	26.1
REP 206	21.65	37.1
REP 212	38.15	53.6

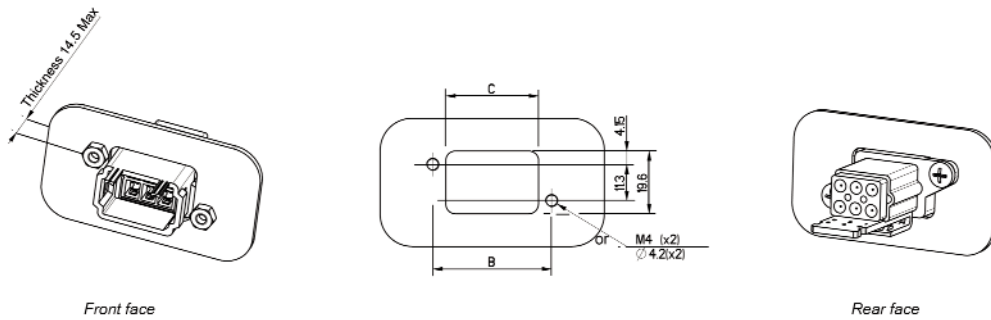


## Contacts

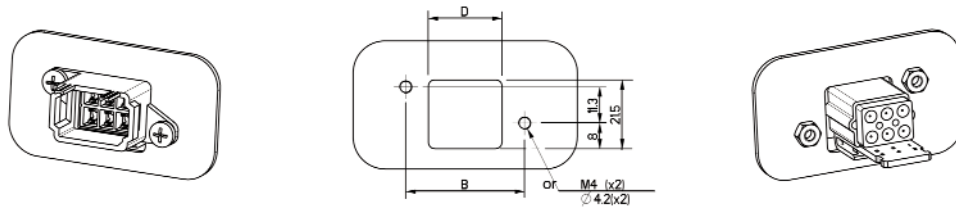
Contacts			Crimping Tool			Extraction Tool
P/N	Type	PIN dia. (size)	Crimping tool	Tool Turret	Position & Wire section	P/N
0151071-20-OG	Pin 	1.5mm (16)	Astro-tool TGV 101 or Daniels FT8	TGV 202 red or SH 463 red	4 - 0.50mm <sup>2</sup> to 0.60mm <sup>2</sup> (20AWG) 5 - 0.50mm <sup>2</sup> to 1mm <sup>2</sup> (18AWG) 6 - 1.34mm <sup>2</sup> to 1.50mm <sup>2</sup> (16AWG) 7 - 1.82mm <sup>2</sup> to 2.61mm <sup>2</sup> (24-12AWG)	SD-0150000012
0151832-20-N1	Socket 					

## Panel Mounting

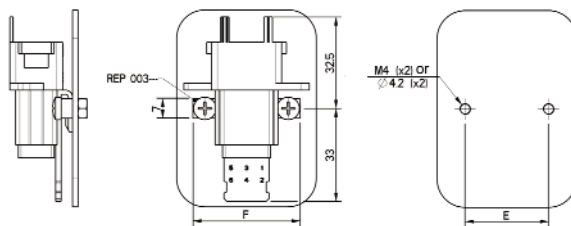
Back Panel Mount



Front Panel Mount


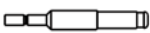


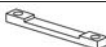


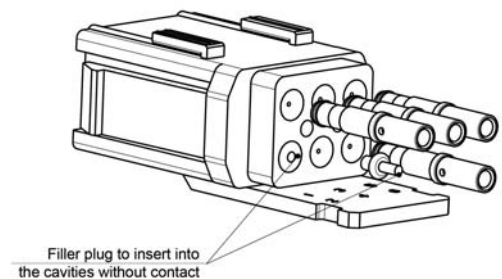
Panel Preparation detail with REP-003-xx accessory



REP 2--	B	C	D	E	F
REP 202	26.1	18	12	18.7	27.2
REP 206	37.1	29	23	29.7	38.2
REP 212	53.6	45.5	39.5	46.2	54.7

## Accessories

P/N	Description
REP_001 	Filler plug
REP_002 	Plastic dummy contact to use > 400V
REP_003-02 	Bracket for panel mounting, 2 way connector
REP_003-06 	Bracket for panel mounting, 6 way connector
REP_003-12 	Bracket for panel mounting, 12 way connector



More information on our website [www.hypertac.com](http://www.hypertac.com)