

P Series



High Reliability Rectangular Plastic Connector

The REP connector is a multi pole IP66 sealed rectangular plastic connector which provides a quick, reliable and easy connection in all electronic applications. The REP connectors range offers two main versions:

- Crimp termination contacts for cable harness applications,
- Straight or bent termination contacts for PCB mount applications.

Both versions are available in 3 layouts: 2, 6 and 12 ways and Hypertac can also delivered the connectors as a precabled solution according to customers' specifications.

The REP connector series uses the proven Hypertac[®] Hyperboloid contact technology which guarantees excellent reliability, even under high levels of shocks and vibrations.

Other benefits:

Compliance with standards	>>	UL 94, EN 61-373, EN 50-124, NF F 61-030, NF F 16-101, NF F 16-102 (fire & smoke), EN ISO 11925-2:2010, UNI CEI 11170-3, materials in polycarbonate and back shell in silicone
Cost saving	>>	Only one contact for cables from size 0.50mm ² to 2.5mm ² (14-12AWG) according to EN 50306-2
Ease of use	>>	Polarised guides & 4 different configurations (cable to cable, clips, front and back panel mount)
Long life cycle	>>	500 mating/unmating cycles: just push to mate, press & relase to unmate
Sealing	>>	IP66 protection according to IEC/DIN EN 60529
Reliability	>>	High current rating supporting up to 16A, high level of vibrations resistance (40G, 5 hours), high withstanding voltage up to 2725V

HYPERTAC

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 10³ 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	16A	Insulator	Grey Thermoplastic (black for REP4xx)	
Contact plating	gold plating	Seal & grommet	Silicone	
ENVIRONMENTAL				
Temperature range	-55° +110°C 250°C for REP 4xx	Salt spray	> 96 hours (ASTM-B-117)	
Vibration resistance	EN 61-373 cat. 2 (on boggie)	Environmental level	IP66 , IP67	
Fire & Smoke	NF F 16-101: I2 F1 NF F 16-102: Exigence 4 EN ISO 11925-2: 30s UNI CEI 11170-3: Prospetto 2 UL 94: V0	Fluid resistance	Cleaning substances, gasoil, acid, basis, oxalic acid	

Ordering Information





Grommet rear face

REP 202

REP 206

Drawings & Dimensions

Male Receptacle, crimp termination



Female Plug, crimp termination



REP 1	Α	В
REP 102	10.5	14
REP 106	21.5	25
REP 112	38	41.5

Dimensions are in mm

Coding devices

Interfacial seal





REP 2	А	В
REP 202	10.65	26.1
REP 206	21.65	37.1
REP 212	38.15	53.6



2 ways



REP 106







12 ways



Drawings & Dimensions

Male Receptacle, Straight Termination

Male Receptacle, Bent Termination







→ D →	211 - 12 - 105 - 10
0 .222.0	
	Grommet Ø35
	4.5 10.5 5.5
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REP 4	Α	В	С	D	
REP 402	26	10.65	12	35	
REP 406	37	21.65	23	46	
REP 412	53.5	38.15	39.5	62.5	

Dimensions are in mm



















12 ways







Rear face





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Panel Preparation detail with REP-003-xx accessory

REP 2	В	С	D	Е	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

Panel Mounting for REP 4--











REP 4	Α	С	Е
REP 402	26	12	18
REP 406	37	23	29
REP 412	53.5	39.5	45.5



Thickness <4mm



Contacts

Contacts				Crimping Tool		
Part Number	Туре	PIN dia. (size)	Crimping tool	Tool Turret	Position & Wire section	P/N
0151071-20-OG*	Pin	1.5mm (16)	Astro-tool TGV 101 or	TGV 202 red	4 - 0.50mm² to 0.60mm² (20AWG) 5 - 0.50mm² to 1mm² (18AWG)	SD-0150000012
0151832-20-N1*	Socket	1.31111 (10)	Daniels FT8	or SH 463 red	6 - 1.34mm ² to 1.50mm ² (16AWG) 7 - 1.82mm ² to 2.61mm ² (14-12AWG)	30-0130000012

* Crimp contacts for layout 102, 106, 112, 202, 206, 212.

Accessories

Part Number		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
REP_004	9	Spacer for straight termination contact



Main Applications



More information on our website www.hypertac.com

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