

Anderson Power Products' family of Euro Battery Connectors (EBC) exceeds all the requirements of DIN 43589-1 and EN 1175-1. The connector design incorporates an innovative, cost effective contact carrier for ease of assembly.

The connectors have a Degree of Protection of IP23 per IEC 60529. The acid resistance and temperature range of the PBT-PC housing exceeds the requirements of EN 1175-1. Contacts are pure copper with silver plate for maximum conductivity.

All materials meet RoHS requirements and are selected to insure years of reliable service under adverse battery environments.

Features

- **Sturdy advanced polymer housings**

PBT-PC alloy housings provides superior resistance to impact, acids and temperature extremes

- **DIN 43589-1 voltage keying**

Dry-cell, wet-cell & universal keying plugs coded for 24 / 36 / 48 / 72 / 80 & 96 volts DC

- **Mating compatibility with connectors of other manufacturers**

APP "E" series connectors offer dimensional compatibility for air tube, pilot and auxiliary contacts over and above the DIN 43589-1 compatibility of housings and main contacts

- **Silver plated pure copper contacts**

For lowest voltage drop and superior performance



SPECIFICATIONS

Current	80 Nominal 155 Maximum*	Degree of Protection	IP 23
Voltage	150 V	Mating Cycles	>5000
Wire Range	10 to 35mm ²	Acid Resistance (PBT-PC)	1.38g/cm ³
Temperature Range	-25 to 105°C	Air Tube Rating	2 bar

* Current derating curves must be observed as current capacity will vary dependent on wire cross section and ambient temperature. Maximum current carrying capacity is measured at 40°C using the maximum wire cross section permissible, crimped to contacts using APP recommended tooling. The maximum working temperature of 105°C should never be exceeded under any working conditions.

ORDERING INFORMATION

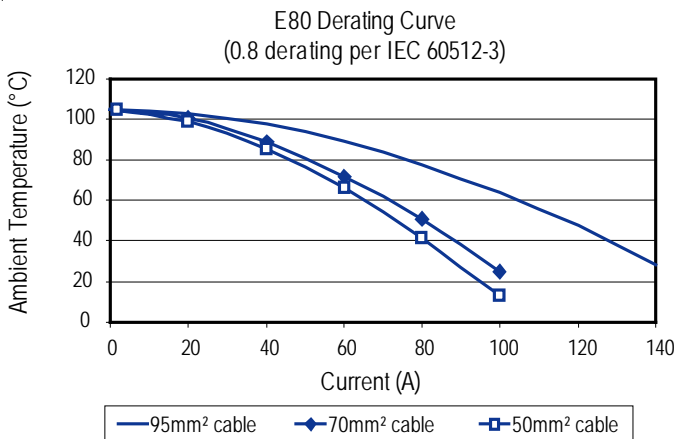
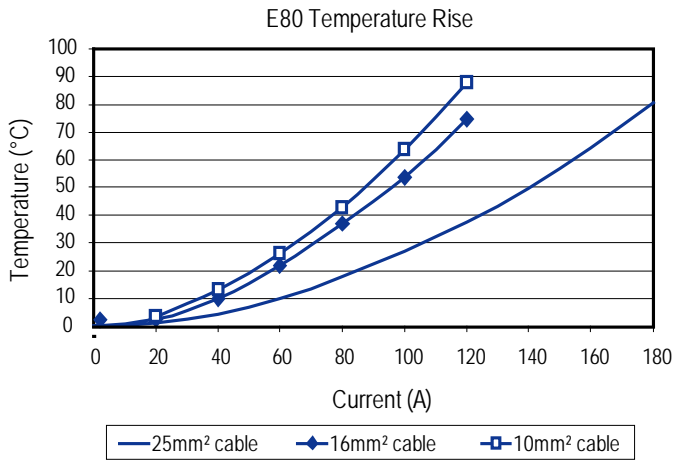
Connector Part Number Selection

Series	Gender	Main Contact	Handle	Coding Key	Pilot Contacts, Auxiliary Contacts or Air Tube	Packaging
E80	4	25	1	0	2	9
4	Plug PBT/PC					9 Individual
00	None, order separately				0 None	8 Bulk
10	10mm ²				1 (2) 2.5mm ² Auxiliary Contacts	
16	16mm ²				2 (2) 1.5mm ² Pilot Contacts	
25	25mm ²				4 (2) 2.5mm ² Auxiliary Contacts & (2) 1.5mm ² Pilot Contacts	
35	35mm ²				5 Air Tube	
0	No			0 Grey, Wet Cell	6 Air Tube & (2) 2.5mm ² Pilot Contacts	
1	Black			1 Green, Dry Cell		
2	Red			2 Yellow, Universal		

Component Part Number

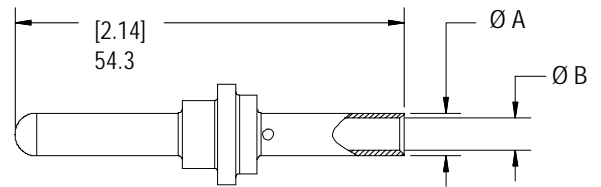
Part Number	Description
PBT/PC Housing Kit	E80400-0009
10mm ² Pin Contact	80-1010
16mm ² Pin Contact	80-1016
25mm ² Pin Contact	80-1025
35mm ² Pin Contact	80-1035
2.5mm ² Aux Pin Contact	E80-30
2.5mm ² Pilot Pin Contact	E80-32
Air Tube	E80-20
Handle	E80-8

TEMPERATURE CHARTS



CONTACT DIMENSIONS

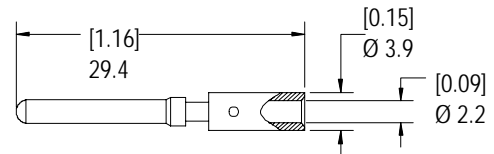
Pin Contact



Part Number	Wire Size mm²	- Ø A -		- Ø B -	
		in.	mm	in.	mm
80-1010	10	0.24	6.0	0.18	4.5
80-1016	16	0.33	8.4	0.24	6.0
80-1025	25	0.43	11.0	0.31	8.0
80-1035	35	0.49	12.5	0.35	9.0

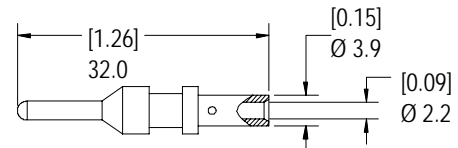
Pilot Contact

Upper 1.5mm² Wire - E80-32



Auxiliary Contact

Lower 2.5mm² Wire - E80-30



HOUSING DIMENSIONS

