Алматы (7273)495-231 Ангарск (3955)60-70-56 Архангельск (8182)63-90-72 Астрахань (8512)99-46-04 Барнаул (3852)73-04-60 Белгород (4722)40-23-64 Благовещенск (4162)22-76-07 Брянск (4832)59-03-52 Владивосток (423)249-28-31 Владикавказ (8672)28-90-48 Владимир (4922)49-43-18 Волгоград (844)278-03-48 Волоград (8172)26-41-59 Воронеж (473)204-51-73 Екатеринбург (343)384-55-89 Иваново (4932)77-34-06 Ижевск (3412)26-03-58 Иркутск (395)279-98-46 Казань (843)206-01-48 Калининград (4012)72-03-81 Калуга (4842)92-23-67 Кемерово (3842)65-04-62 Киров (8332)68-02-04 Коломна (4966)23-41-49 Кострома (4942)77-07-48 Краснодрс (861)203-40-90 Красноярск (391)204-63-61 Курск (4712)77-13-04 Курган (3522)50-90-47 Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13 Москва (495)268-04-70 Мурманск (8152)59-64-93 Набережные Челны (8552)20-53-41 Нижний Новгород (831)429-08-12 Новокузнецк (3843)20-46-81 Ноябрьск (3496)41-32-12 Новосибирск (383)227-86-73 Омск (3812)21-46-40 Орел (4862)44-53-42 Оренбург (3532)37-68-04 Пенза (8412)22-31-16 Петрозаводск (8142)55-98-37 Псков (8112)59-10-37 Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Саранск (8342)22-96-24
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97

Тверь (4822)63-31-35 Тольятти (8482)63-91-07 Томск (3822)98-41-53 Тула (4872)33-79-87 Туме (4872)33-79-87 Тумень (3452)66-21-18 Ульяновск (8422)24-23-59 Улан-Удэ (3012)59-97-51 Уфа (347)229-48-12 Хабаровск (4212)92-98-04 Чебоксары (8352)28-53-07 Челябинск (351)202-03-61 Череповец (8202)49-02-64 Чита (3022)38-34-83 Якутск (4112)23-90-97 Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

www.aptiv.nt-rt.ru || avi@nt-rt.ru

Технические характеристики на пигтейлы оптические SRS AK-2, SRS AK-1 компании APTIV PLC



Product Name: AK-2 Connector Position Assurance (CPA)

AK-2 FPB180-5 SRS Connector

This part is not currently offered in our sample program.



Attributes

SRS Connector Color 1

BLUE

SRS Connector Color 2

GREEN

Product Name (SRS)

FPB180-5

Wire Type

FLRY-A 2x0.35 (2TAD, 5CBT)

SRS Interface

AK-2

Wire Outer Diameter Minimum (mm)

1.2

Wire Outer Diameter Maximum (mm)

1.5

EMI Filtering Device

Ferrite

Serviceability

Yes

Water tight

No

Termination Technology Resistance welding

Coding/Index

ı

Max. operating temperature

+85°C

Min. operating temperature

-40°C



Application: Passenger Compartment

Product Name: AK-1 Connector Position Assurance (CPA)

Old/Legacy Part Number: PPI0001842

AK-1 FAB180-5 SRS Connector

This part is not currently offered in our sample program.



Attributes

SRS Connector Color 1

WHITE

Yes

SRS Connector Color 2

YELLOW

Water tight

Serviceability

No

Product Name (SRS)

FAB180-5

Termination Technology

Resistance welding

Wire Type

FLRY-A 2x0.5 (2TAD, 5CBT)

Coding/Index C

SRS Interface

Sho iliterrace

AK-1

Wire Size

0.5

Wire Outer Diameter Minimum (mm)

1 /

Max. operating temperature

+85°C

Wire Outer Diameter Maximum (mm)

1.7

Min. operating temperature

-40°C

EMI Filtering Device



Application: Passenger Compartment

Product Name: AK-1 Connector Position Assurance (CPA)

Old/Legacy PPI0001841 Part Number:

AK-1 FAB180-5 SRS Connector

This part is not currently offered in our sample program.



Attributes

SRS Connector Color 1

GRAY

SRS Connector Color 2

WHITE

Product Name (SRS)

FAB180-5

Wire Type

FLRY-A 2x0.5 (2TAD, 5CBT)

SRS Interface

AK-1

Wire Outer Diameter Minimum (mm)

Wire Outer Diameter Maximum (mm)

1.7

Serviceability

Yes

Water tight

No

Termination Technology Resistance welding

Coding/Index

Wire Size

0.5

Max. operating temperature

Min. operating temperature

-40°C

EMI Filtering Device



Application: Passenger Compartment

Product Name: AK-1 Connector Position Assurance (CPA)

Old/Legacy PPI0001840

Part Number:

AK-1 FAB180-5 SRS Connector

This part is not currently offered in our sample program.



Attributes

SRS Connector Color 1

BLUE

SRS Connector Color 2

BROWN

Product Name (SRS)

FAB180-5

Wire Type

FLRY-A 2x0.5 (2TAD, 5CBT)

SRS Interface AK-1

Wire Outer Diameter Minimum (mm)

1.4

Wire Outer Diameter Maximum (mm)

1.7

Serviceability

Yes

Water tight

No

Termination Technology Resistance welding

Coding/Index

Α

Wire Size

0.5

Max. operating temperature

+85°C

Min. operating temperature

-40°C

EMI Filtering Device



Application: Passenger Compartment

Product Name: AK-1 Connector Position Assurance (CPA)

Old/Legacy PPI0001660

Part Number:

AK-1 FAB90-5 SRS Connector

This part is not currently offered in our sample program.



Attributes

SRS Connector Color 1 Serviceability

BLUE

SRS Connector Color 2 Water tight

BROWN No

Product Name (SRS) Termination Technology
FAB90-5 Resistance welding

Yes

Wire Type Coding/Index

FLRY-A 2x0.5 (2TAD, 5CBT) A

SRS Interface Wire Size AK-1 0.5

Wire Outer Diameter Minimum (mm) Max. operating temperature

4 +85°

Wire Outer Diameter Maximum (mm) Min. operating temperature

1.7 -40°C

EMI Filtering Device



Application: Passenger Compartment

Product Name: AK-1 Connector Position Assurance (CPA)

Old/Legacy PPI0001626

Part Number:

AK-1 FAB90-5 SRS Connector

This part is not currently offered in our sample program.



Attributes

SRS Connector Color 1 Serviceability

GRAY

SRS Connector Color 2 Water tight

WHITE No

Product Name (SRS) Termination Technology FAB90-5 Resistance welding

Yes

Wire Type Coding/Index

FLRY-A 2x0.5 (2TAD, 5CBT)

SRS Interface Wire Size AK-1 0.5

Wire Outer Diameter Minimum (mm) Max. operating temperature

+8

Wire Outer Diameter Maximum (mm) Min. operating temperature

1.7 -40°C

EMI Filtering Device



Product Name: AK-2 Connector Position Assurance (CPA)

Old/Legacy PPI0001144

Part Number:

AK-2 FPB180-5 SRS Connector

This part is not currently offered in our sample program.



Attributes

SRS Connector Color 1

WHITE

SRS Connector Color 2

YELLOW

Product Name (SRS)

FPB180-5

Wire Type

FLRY-A 2x0.5 (2TAD, 5CBT)

SRS Interface AK-2

Wire Outer Diameter Minimum (mm)

1 /

Wire Outer Diameter Maximum (mm)

1.7

Serviceability

Yes

Water tight

No

Termination Technology Resistance welding

Coding/Index

Ш

Wire Size

0.5

Max. operating temperature

+85°C

Min. operating temperature

-40°C

EMI Filtering Device



Product Name: AK-2 Connector Position Assurance (CPA)

PPI0001143 Old/Legacy

Part Number:

AK-2 FPB180-5 SRS Connector

This part is not currently offered in our sample program.



Attributes

SRS Connector Color 1

GRAY

SRS Connector Color 2

WHITE

Product Name (SRS)

FPB180-5

Wire Type

FLRY-A 2x0.5 (2TAD, 5CBT)

SRS Interface

AK-2

Wire Outer Diameter Minimum (mm)

Wire Outer Diameter Maximum (mm)

1.7

Water tight

Serviceability

No

Yes

Termination Technology Resistance welding

Coding/Index

Wire Size

0.5

Max. operating temperature

Min. operating temperature

-40°C

EMI Filtering Device



Product Name: AK-2 Connector Position Assurance (CPA)

Old/Legacy PPI0001878

Part Number:

AK-2 FPB90-5 SRS Connector

This part is not currently offered in our sample program.

Attributes

SRS Connector Color 1

WHITE

SRS Connector Color 2

YELLOW

Product Name (SRS)

FPB90-5

Wire Type

FLRY-A 2x0.5 (2TAD, 5CBT)

SRS Interface AK-2

Wire Outer Diameter Minimum (mm)

1 /

Wire Outer Diameter Maximum (mm)

1.7

Serviceability

Yes

Water tight

No

Termination Technology Resistance welding

Coding/Index

Ш

Wire Size

0.5

Max. operating temperature

+85°C

Min. operating temperature

-40°C

EMI Filtering Device



Product Name: AK-2 Connector Position Assurance (CPA)

Old/Legacy PPI0001877

Part Number:

AK-2 FPB90-5 SRS Connector

This part is not currently offered in our sample program.

Attributes

SRS Connector Color 1

GRAY

SRS Connector Color 2

WHITE

Product Name (SRS)

FPB90-5

Wire Type

FLRY-A 2x0.5 (2TAD, 5CBT)

SRS Interface AK-2

Wire Outer Diameter Minimum (mm)

1 /

Wire Outer Diameter Maximum (mm)

1.7

Serviceability

Yes

Water tight

No

Termination Technology Resistance welding

Coding/Index

Ш

Wire Size

0.5

Max. operating temperature

+85°C

Min. operating temperature

-40°C

EMI Filtering Device



Product Name: AK-2 Connector Position Assurance (CPA)

AK-2 FPB90-5 SRS Connector

This part is not currently offered in our sample program.



Attributes

SRS Connector Color 1

BROWN

SRS Connector Color 2

VIOLET

Product Name (SRS)

FPB90-5

Wire Type

SRS Interface

FLRY-A 2x0.35 (2TAD, 5CBT)

AK-2

Wire Outer Diameter Minimum (mm)

1 2

Wire Outer Diameter Maximum (mm)

1.5

Serviceability

Yes

Water tight

No

Termination Technology Resistance welding

Coding/Index

Ш

Wire Size 0.35

Max. operating temperature

+85°C

Min. operating temperature

-40°C

EMI Filtering Device



Product Name: AK-2 Connector Position Assurance (CPA)

AK-2 FPB90-5 SRS Connector

This part is not currently offered in our sample program.



Attributes

SRS Connector Color 1

GRAY

SRS Connector Color 2

RED

Product Name (SRS)

FPB90-5

Wire Type

FLRY-A 2x0.35 (2TAD, 5CBT)

SRS Interface

AK-2

Wire Outer Diameter Minimum (mm)

1.2

Wire Outer Diameter Maximum (mm)

1.5

Serviceability

Yes

Water tight

No

Termination Technology Resistance welding

Coding/Index

Ш

Wire Size

0.35

Max. operating temperature

+85°C

Min. operating temperature

-40°C

EMI Filtering Device



Product Name: AK-2 Connector Position Assurance (CPA)

AK-2 FPB90-5 SRS Connector

This part is not currently offered in our sample program.



Attributes

SRS Connector Color 1

BLUE

SRS Connector Color 2

GREEN

Product Name (SRS)

FPB90-5

Wire Type

FLRY-A 2x0.35 (2TAD, 5CBT)

SRS Interface

AK-2

Wire Outer Diameter Minimum (mm)

1.2

Wire Outer Diameter Maximum (mm)

1.5

Serviceability

Yes

Water tight

No

Termination Technology Resistance welding

Coding/Index

1

Wire Size 0.35

Max. operating temperature

+85°C

Min. operating temperature

-40°C

EMI Filtering Device



Product Name: AK-2 Connector Position Assurance (CPA)

AK-2 FPB180-5 SRS Connector

This part is not currently offered in our sample program.



Attributes

SRS Connector Color 1

BROWN

SRS Connector Color 2

VIOLET

Product Name (SRS)

FPB180-5

Wire Type

FLRY-A 2x0.35 (2TAD, 5CBT)

SRS Interface AK-2

Wire Outer Diameter Minimum (mm)

1 2

Wire Outer Diameter Maximum (mm)

1.5

Serviceability

Yes

Water tight

No

Termination Technology Resistance welding

Coding/Index

Ш

Wire Size 0.35

Max. operating temperature

+85°0

Min. operating temperature

-40°C

EMI Filtering Device



Product Name: AK-2 Connector Position Assurance (CPA)

Old/Legacy PPI0001899

Part Number:

AK-2 FPB180-5 SRS Connector

This part is not currently offered in our sample program.



Attributes

SRS Connector Color 1 Serviceability

GRAY

SRS Connector Color 2 Water tight

RED No

Product Name (SRS) Termination Technology

FPB180-5 Resistance welding

Yes

Wire Type Coding/Index

FLRY-A 2x0.35 (2TAD, 5CBT)

SRS Interface Wire Size AK-2 0.35

Wire Outer Diameter Minimum (mm) Max. operating temperature

2 +85°

Wire Outer Diameter Maximum (mm) Min. operating temperature 1.5 -40 $^{\circ}$ C

EMI Filtering Device



Product Name: AK-2 Connector Position Assurance (CPA)

AK-2 FPB180-5 SRS Connector

This part is not currently offered in our sample program.



Attributes

SRS Connector Color 1

BLUE

SRS Connector Color 2

BROWN

Product Name (SRS)

FPB180-5

Wire Type

FLRY-A 2x0.5 (2TAD, 5CBT)

SRS Interface

AK-2

Wire Outer Diameter Minimum (mm)

Wire Outer Diameter Maximum (mm)

1.7

Serviceability

Yes

Water tight

No

Termination Technology Resistance welding

Coding/Index

Wire Size

0.5

Max. operating temperature

Min. operating temperature

-40°C

EMI Filtering Device



Product Name: AK-2 Connector Position Assurance (CPA)

AK-2 FPB90-5 SRS Connector

This part is not currently offered in our sample program.

Attributes

SRS Connector Color 1

BLUE

SRS Connector Color 2

BROWN

Product Name (SRS)

FPB90-5

Wire Type

FLRY-A 2x0.5 (2TAD, 5CBT)

SRS Interface

AK-2

Wire Outer Diameter Minimum (mm)

1.4

Wire Outer Diameter Maximum (mm)

1.7

Serviceability

Yes

Water tight

No

Termination Technology Resistance welding

Coding/Index

Wire Size

0.5

Max. operating temperature

+85°C

Min. operating temperature

-40°C

EMI Filtering Device



Application: Passenger Compartment

Product Name: AK-1 Connector Position Assurance (CPA)

AK-1 FAB90-5 SRS Connector

Attributes

SRS Connector Color 1

WHITE

SRS Connector Color 2

YELLOW

Product Name (SRS)

FAB90-5

Wire Type

FLRY-A 2x0.5 (2TAD, 5CBT)

SRS Interface AK-1

Wire Outer Diameter Minimum (mm)

1 /

Wire Outer Diameter Maximum (mm)

1.7

Serviceability

Yes

Water tight

No

Termination Technology Resistance welding

Coding/Index

С

Wire Size

0.5

Max. operating temperature

+85°C

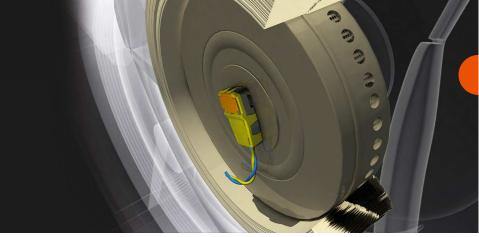
Min. operating temperature

-40°C

EMI Filtering Device

Superior technology

that saves lives and exceeds your expectations



1) Resistance welding

Resistance welding, as a replacement for the mechanical crimp of terminal to wire, has gained traction in the industry as the preferred connection technology for squib connectors. Superior mechanical and electrical stability over the lifetime is the major criteria for selecting this solution. Our products feature the benefits of resistance welding.



(2) CES/CPA system

The patented Aptiv CES (Connector Engaged Safety) system employs the CPA (Connector Position Assurance) locking mechanism to create a reliable and safe mating process, ensuring a fully locked connector on the inflator. This valuable feature is the result of our best thinking over more than 20 years of experience supplying the industry.



Shorting bar removal

Modern airbag modules are a lot more robust against electrostatic discharge (ESD). This opened the door to develop a new interface without shorting bar and created the ABX-5 connector family.



4 ESD (Electro-Static Discharge) system

Aptiv offers a squib connector that incorporates a grounding lead. Airbag modules have to be grounded in many cases, which can be complicated and expensive. You can avoid using metal brackets or grounding straps if you introduce Aptiv's ESD system.



(5) Spring Lock connectors

A go/no-go adds a self-rejection feature to the connector design to give visible feedback if the connector has been mounted properly. Also the electrical connection will disconnect automatically when the connector has not reached the final locking position.



6) Sealed applications

Squib connectors used for pedestrian protection or battery cutoff are often exposed to the harsh engine compartment environment. Aptiv has introduced connector solutions to help meet the specific requirements of these exposed pyrotechnic devices.



7 The most compact products on the market

Space constraints can be a problem in the design of airbag modules, such as driver or side airbags. Aptiv has more than a decade of experience offering some of the most compact designs in the market. Ask about our low-profile connectors with less than 5 mm of protrusion.



Reliability is a matter of wiring expertise





airbag applications, the

squib connection system

must also possess circuit

technology together in a ready-to-use solution: the "pigtail."

Aptiv brings

systems through stable resistance conditions and a monitoring function to

A pigtail is defined as a connector featuring a preand length, type and color is done for you.

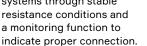
equipment has been tuned to a high level of reliability and efficiency over the years. This level of quality airbag circuits.

The advantages of a jumper harness

In other applications, such as side airbags in seats, it is more convenient to have wiring pre-assembled to the airbag and then shipped to the seat integrator.

Aptiv supports this with customizable jumper harness assemblies featuring the squib

connector at one end, a standard connector at the other, and attachment accessories in between. All shipped to the airbag manufacturer ready to connect. Whether your job is to supply the airbag, the vehicle wiring, or one of its modules, we will work with you to design the best solution.



attached length of wire. The user specifies the connector, of the wire. All of the critical internal connector assembly (wire termination, wire strain relief and cutting to length)

Our manufacturing and completeness is exactly what is needed in safety and



related to vibration, heat, filtering capability, feature assembly abuse and even a small form factor for tight harsh environment in certain packaging, and cooperate applications. Unique to with onboard diagnostic

A squib connector must

automotive environments

perform in all the customary

The squib connector and pigtail

A comprehensive product portfolio

- ABX-5: The successor to the current global AK-2 standard
 - Reduction of system costs and higher robustness due to shorting bar removal from the retainer
 - Available in a Spring Lock and CPA* version featuring a simplified mating monitoring.
 - 100% scoop-proof ABX-5 interface.



- AK-2: SRS best-in-class all-rounder
 - Features a scoop-proof interface, noise filtering and shorting clip activation.
 - Our most popular product is removable for service.
 - An excellent general-purpose squib connector.



- Stay grounded with AK-2+ ESD**
- 100% scoop-proof AK-2+ interface.
- Integrated grounding solution to eliminate potential misfiring caused by electrostatic discharge on the initiator.



- 4 ABX-3: the space maker
 - One of the smallest full-featured design on the market.
 - Smaller form factor for applications with very tight space constraints.



- * Connector Position Assurance
- ** Electro-Static Discharge



- Cost effective UC solution not requiring a retainer.
- Connector and pigtail are handled as if part of the ignitor.
- Fully serviceable Pyrofuse solution for harsh environment, can be disassembled from the ignitor interface.
- Sealed performance for applications external to the cockpit.



- A full family of retainers
 - Match with FCI, AK-1, AK-2, AK-2+ and ABX-5 interface connectors.
 - Shorting bar protection for the ignitor excluding ABX-5.
 - Different levels of scoop-proofing and indexing.



	Termination type	CES-CPA	Spring Lock	No CPA (Reversed legs)	Scoop-proof	Sealed	Main features
ABX-5	Welding	90º/180º	90º/180º	No	Yes	No	No shorting clip
AK-2	Welding	90º/180º	90º/180º	No	Yes	No	Standard AK-2 product
AK-2 ESD*	Welding	90°	90º/180º	No	Yes	No	Integrated grounding
ABX-3	Crimp	No	No	90°/180°	No	No	Miniaturized design
ABX-UC sealed	Welding	No	No	90°	No	Yes	No retainer needed
ABX-UC unsealed	Crimp	No	No	90°	No	No	No retainer needed
Pyrofuse	Welding	90°	No	No	Improved	Yes	Sealed & serviceable

^{*} Electro-Static Discharge

10

AK-2 CLASSIC CPA SQUIB CONNECTORS



BENEFITS

- Best in class quality, due to fully automated production
- Release for the majority of OEMs
- Automated section side crimping available

FEATURES

- 100% scoop-proof interface and excellent blind mating characteristics
- Robust and ergonomic design
- 3 codings compatible with retainers according to ISO 19072-4 and USCAR 999-U-002-1-Z03
- Compatible with initiator according to ISO 19072-1 and USCAR 999-U-002-1-Z02

₹ TECHNICAL CHARACTERISTICS

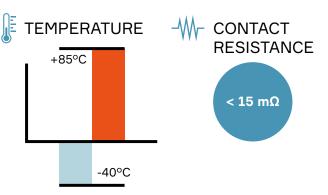
Interface	AK-2	
Serviceability	Serviceable	
Emi Filtering Device	Ferrite	
Locking Type	Active CPA*	
Termination Technology	Welding	

^{*} Connector Position Assurance



Passenger compartment

See back page for representative part numbers and packaging dimensions.





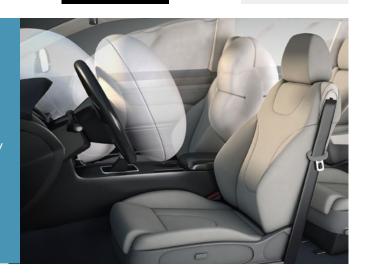
750V/DC



> 135 N

About Aptiv

Aptiv is a global technology company that develops safer, greener and more connected solutions enabling the future of mobility. Headquartered in Dublin, Aptiv has approximately 150,000 employees and operates 14 technical centers, as well as manufacturing sites and customer support centers in 45 countries.





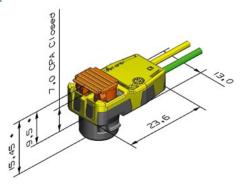


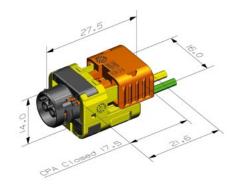
Product code	FPB90-5	FPB180-5
Interface	AK-2	AK-2
Available codings	1, 11, 111	1, 11, 111
Compatible wire size	0.35 mm², 0.5 mm², 0,75 mm²	0.35 mm², 0.5 mm², 0,75 mm²

For the matching part numbers, please contact your Aptiv representatives.



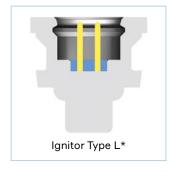
DIMENSION MEASUREMENT SAMPLE

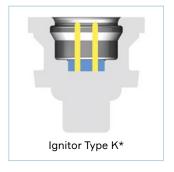




The dimensions are in mm.









^{*} Ignitors are not manufactured by Aptiv, please contact your usual supplier.

AK-1 CLASSIC CPA SQUIB CONNECTOR



BENEFITS

- Best in class quality, due to fully automated production
- Superior lifetime stability through resistance welded wires

FEATURES

· Robust and ergonomic design

750V/DC

- 3 codings compatible with retainers according to NF R 13-483
- Compatible with initiator according to ISO 19072-1 and USCAR 999-U-002-1-Z02

TECHNICAL CHARACTERISTICS

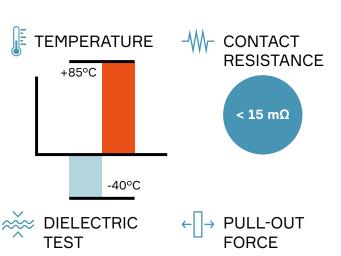
Interface	AK-1	
Serviceability	Serviceable	
EMI filtering device	Ferrite	
Locking type	Active CPA*	
Termination technology	Welding	

^{*} Connector Position Assurance



Passenger compartment

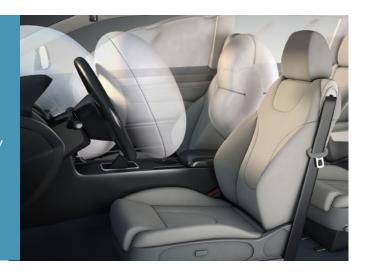
See back page for representative part numbers and packaging dimensions.



> 135 N

About Aptiv

Aptiv is a global technology company that develops safer, greener and more connected solutions enabling the future of mobility. Headquartered in Dublin, Aptiv has approximately 150,000 employees and operates 14 technical centers, as well as manufacturing sites and customer support centers in 45 countries.





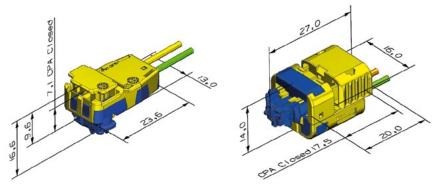


Product code	FAB90-5	FAB180-5
Interface	AK-1	AK-1
Available codings	A, B, C	A, B, C
Compatible wire size	0.5 mm ²	0.5 mm²

For the matching part numbers, please contact your Aptiv representatives.

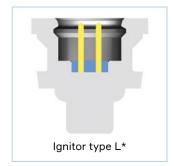


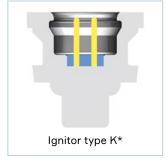
DIMENSION MEASUREMENT SAMPLE



The dimension are in mm.

MATES WITH







 $[\]ensuremath{^{\star}}$ Ignitors are not manufactured by Aptiv, please contact your usual supplier.

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Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(7172)727-132

Киргизия +996(312)96-26-47

www.aptiv.nt-rt.ru || avi@nt-rt.ru