



**AUTOMOTIVE / METRIPACK
CONNECTORS**

● **GENERAL FEATURES OF MOULDED CONNECTORS:**

Conductor cross section :
0.34mm²(22AWG)...1(18AWG).

Contact seal material :
Round liquid silicone.

Protection class :
IP 67.

Fixing system :
Suitable for Metri-pack system
coupling.

Housing material :
Polypropylene.

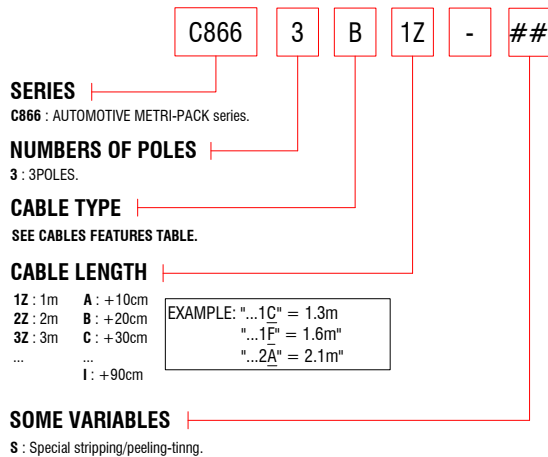
Operating temperature :
-25°C +90°C

Type of terminations :
Crimped wires.

Nominal current :
7,5A.

Contact material and treatment :
Brass + tin plated.

Max contact current :
15A.



● **AUTOMOTIVE CONNECTORS CABLES:**

Code	Material	Type of cable	Colour	Section	No.core	Cable ø mm ±0.3	Temperature range °C
01	PVC/PVC	IEC332-1 H03VVF	Black	0.50mm ²	3	ø5mm	-20°C / +80°C
02	PVC/PVC	IEC332-1 H05VVF	Black	0.75mm ²	3	ø6.7mm	-20°C / +80°C
B*	PVC/PVC	CEI2022	Black	0.34mm ²	3	ø 4.8mm	-20°C / +80°C
L	PVC/PVC	CEI2022	Grey RAL7032	0.34mm ²	3	ø 4.8mm	-20°C / +80°C
D*	PUR/PUR		Black	0.34mm ²	3	ø 4.8mm	-40°C / +80°C
BD*	PUR/PUR	Li-YY11Y	Black	0.75mm ²	3	ø6.7mm	-40°C / +80°C

*** = Cables with minimum quantity required.**

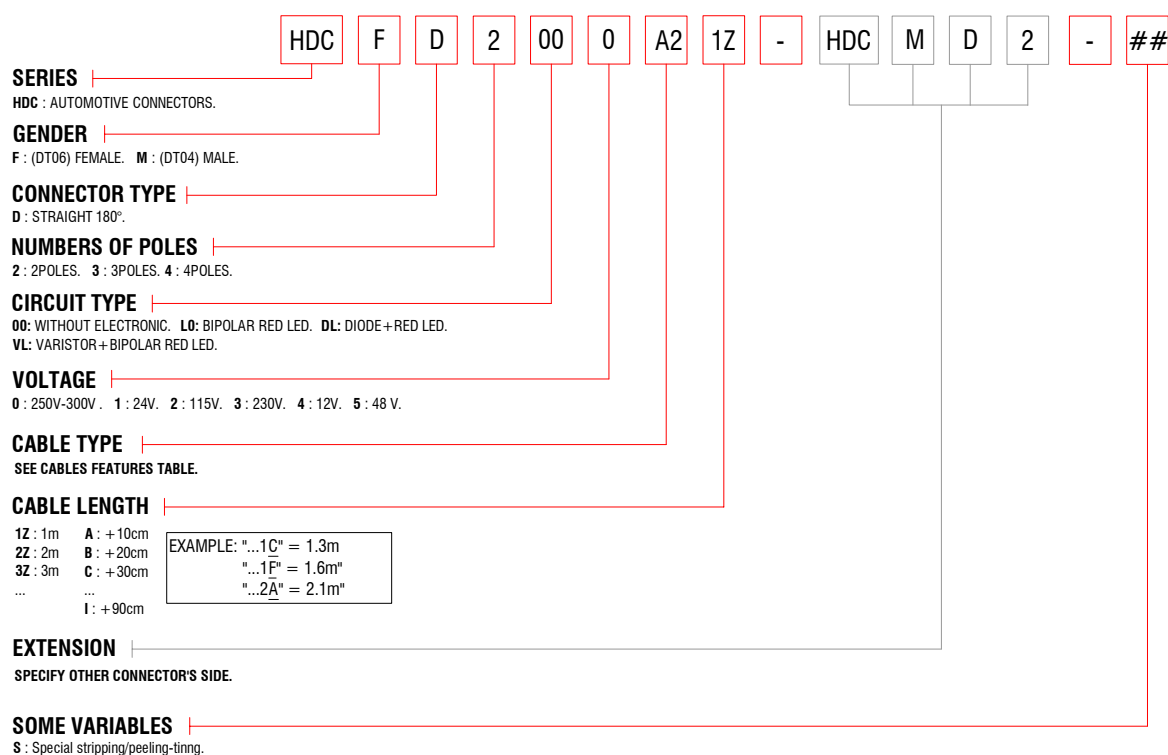
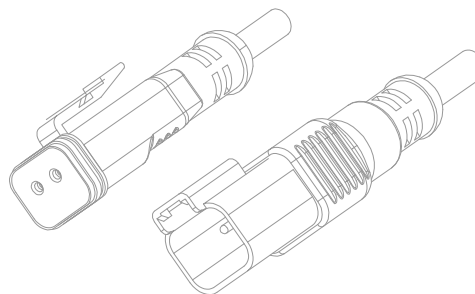
AUTOMOTIVE / METRIPACK CONNECTORS

Automotive connectors interchangeable with DT series with moulded cable / General features and codification scheme



GENERAL FEATURES OF MOULDED CONNECTORS:

- Conductor cross section :**
0.34(22AWG)...0.75mm²(18AWG).
- Contact material and treatment :**
Brass + tin plated.
- Internal core material :**
PA66.
- Fixing system :**
Interchangeable with DT series connector system.
- Contact seal material :**
Round liquid silicone.
- Protection class :**
IP 67.
- Type of terminations :**
Crimping wires.
- Housing material :**
Polypropylene.
- Operating temperature :**
-25°C +90°C.

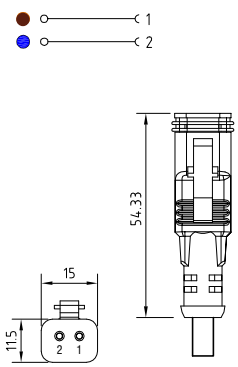
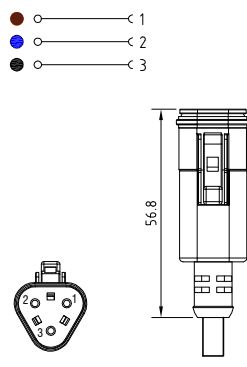
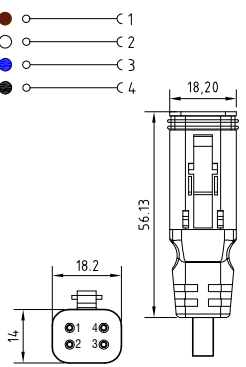
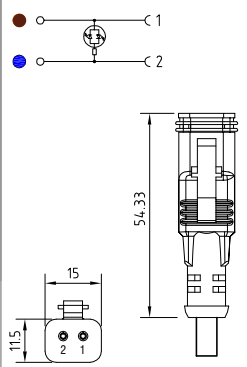


AUTOMOTIVE CONNECTORS CABLES:

Code	Material	Type of cable	Colour	Section	No.core	Cable ø mm ±0.3	Temperature range °C	Wires colouring
BA	PUR/PUR	Li-YY11Y	Black	0.75mm ²	2	ø 6.5mm	-40°C / +80°C	Brown;Blue
BD	PUR/PUR	Li-YY11Y	Black	0.75mm ²	3	ø 6.7mm	-40°C / +80°C	Brown;Blue;Black
BE	PUR/PUR	Li-YY11Y	Black	0.75mm ²	4	ø 7 mm	-40°C / +80°C	Brown;Blue;Black;White

* = Cables with minimum quantity required.



Technical drawing									
Product description		Connector type Automotive/Valve connector		Connector type Automotive/Valve connector		Connector type Automotive/Valve connector		Connector type Automotive/Valve connector	
Interchangeable to		Deutsch DT06		Deutsch DT06		Deutsch DT06		Deutsch DT06	
Construction type		Valve connector DT series		Valve connector DT series		Valve connector DT series		Valve connector DT series	
Description		Automotive/Valve connector with moulded cable. Connector without electronic.		Automotive/Valve connector with moulded cable. Connector without electronic.		Automotive/Valve connector with moulded cable. Connector without electronic.		Automotive/Valve connector with moulded cable. Connector with electronic.	
Part number		HDCFD2000BA1Z		HDCFD3000BD1Z		HDCFD4000BE1Z		HDCFD2L01BA1Z	
Housing type		Straight 180°		Straight 180°		Straight 180°		Straight 180°	
Cable gland		Moulded cable		Moulded cable		Moulded cable		Moulded cable	
Contacts type		Female		Female		Female		Female	
Number of contacts		2poles		3poles		4poles		2poles	
Housing colour		Black		Black		Black		Transparent	
Technical data		Type of termination Contacts to crimping wires		Type of termination Contacts to crimping wires		Type of termination Contacts to crimping wires		Type of termination Contacts to crimping wires	
Contacts material		Brass + Gold flash		Brass + Gold flash		Brass + Gold flash		Brass + Gold flash	
Rated voltage		48 V AC/DC		48 V AC/DC		48 V AC/DC		24 V AC/DC	
Circuit type		-		-		-		Bipolar Led	
Led colour		-		-		-		Red	
Rated current		8A		8A		8A		4A	
Gasket material		Silicone		Silicone		Silicone		Silicone	
Cable type		PUR/PUR Li-YY11Y		PUR/PUR Li-YY11Y		PUR/PUR Li-YY11Y		PUR/PUR Li-YY11Y	
Cable jacket colour		Black		Black		Black		Black	
No. Conductors / Section		2x0.75mm ²		3x0.75mm ²		4x0.75mm ²		2x0.75mm ²	
Conductor colours		Brown; Blue		Brown; Blue ; Black		Brown; White; Blue ; Black		Brown; Blue	
Cable diameter		ø6.5mm (±0.3)		ø6.7mm (±0.3)		ø7mm (±0.3)		ø6.5mm (±0.3)	
Cable length		1m		1m		1m		1m	
Packaging		Qty/Bag 1 pc / bag		Qty/Bag 1 pc / bag		Qty/Bag 1 pc / bag		Qty/Bag 1 pc / bag	
Other accessories options		See accessories section		See accessories section		See accessories section		See accessories section	
Notes:		Connectors available with different features: See the general features and codification scheme page See the cables list section		Connectors available with different features: See the general features and codification scheme page See the cables list section		Connectors available with different features: See the general features and codification scheme page See the cables list section		Connectors available with different features: See the general features and codification scheme page See the cables list section	

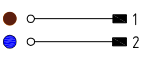
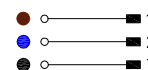

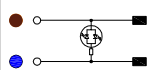
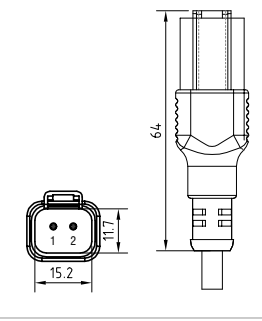
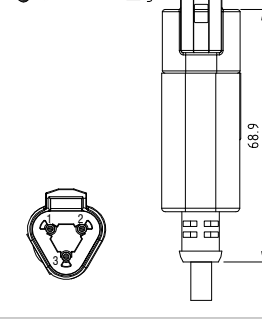
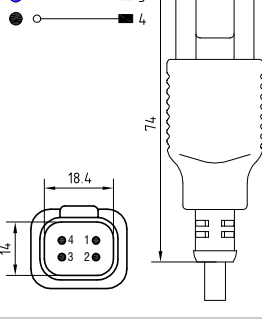
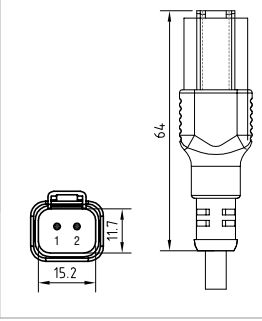
AUTOMOTIVE / METRIPACK CONNECTORS

Automotive connectors interchangeable with DT series with moulded cable



Technical drawing				
Product description				
Connector type	Automotive/Valve connector	Automotive/Valve connector		
Interchangeable to	Deutsch DT06	Deutsch DT06		
Construction type	Valve connector DT series	Valve connector DT series		
Description	Automotive/Valve connector with moulded cable. Connector with electronic.	Automotive/Valve connector with moulded cable. Connector with electronic.		
Part number	HDCFD2DL1BA1Z	HDCFD2VL1BA1Z		
Housing type	Straight 180°	Straight 180°		
Cable gland	Moulded cable	Moulded cable		
Contacts type	Female	Female		
Number of contacts	2poles	2poles		
Housing colour	Transparent	Transparent		
Technical data				
Type of termination	Contacts to crimping wires	Contacts to crimping wires		
Contacts material	Brass + Gold flash	Brass + Gold flash		
Rated voltage	24 V DC	24 V AC/DC		
Circuit type	Led + Diode(1A)	Led + Varistor		
Led colour	Red	Red		
Rated current	1A	1A		
Gasket material	Silicone	Silicone		
Cable type	PUR/PUR Li-YY11Y	PUR/PUR Li-YY11Y		
Cable jacket colour	Black	Black		
No. Conductors / Section	2x0.75mm ²	2x0.75mm ²		
Conductor colours	Brown; Blue	Brown; Blue		
Cable diameter	ø6.5mm (±0.3)	ø6.5mm (±0.3)		
Cable length	1m	1m		
Packaging				
Qty/Bag	1 pc / bag	1 pc / bag		
Other accessories options				
See accessories section				
Notes: Connectors available with different features: See the general features and codification scheme page See the cables list section				



Technical drawing					
					
Product description					
Connector type	Automotive/Valve connector	Automotive/Valve connector	Automotive/Valve connector	Automotive/Valve connector	Automotive/Valve connector
Interchangeable to	Deutsch DT04	Deutsch DT04	Deutsch DT04	Deutsch DT04	Deutsch DT04
Construction type	Valve connector DT series	Valve connector DT series	Valve connector DT series	Valve connector DT series	Valve connector DT series
Description	Automotive/Valve connector with moulded cable. Connector without electronic.	Automotive/Valve connector with moulded cable. Connector without electronic.	Automotive/Valve connector with moulded cable. Connector without electronic.	Automotive/Valve connector with moulded cable. Connector without electronic.	Automotive/Valve connector with moulded cable. Connector with electronic.
Part number	HDCMD2000BA1Z	HDCMD3000BD1Z	HDCMD4000BE1Z	HDCMD2L01BA1Z	
Housing type	Straight 180°	Straight 180°	Straight 180°	Straight 180°	Straight 180°
Cable gland	Moulded cable	Moulded cable	Moulded cable	Moulded cable	Moulded cable
Contacts type	Male	Male	Male	Male	Male
Number of contacts	2poles	3poles	4poles	2poles	2poles
Housing colour	Black	Black	Black	Black	Transparent
Technical data					
Type of termination	Contacts to crimping wires	Contacts to crimping wires	Contacts to crimping wires	Contacts to crimping wires	Contacts to crimping wires
Contacts material	Brass + Gold flash	Brass + Gold flash	Brass + Gold flash	Brass + Gold flash	Brass + Gold flash
Rated voltage	48 V AC/DC	48 V AC/DC	48 V AC/DC	48 V AC/DC	24 V AC/DC
Circuit type	-	-	-	-	Bipolar Led
Led colour	-	-	-	-	Red
Rated current	8A	8A	8A	8A	4A
Gasket material	-	-	-	-	-
Cable type	PUR/PUR Li-YY11Y	PUR/PUR Li-YY11Y	PUR/PUR Li-YY11Y	PUR/PUR Li-YY11Y	PUR/PUR Li-YY11Y
Cable jacket colour	Black	Black	Black	Black	Black
No. Conductors / Section	2x0.75mm ²	3x0.75mm ²	4x0.75mm ²	2x0.75mm ²	2x0.75mm ²
Conductor colours	Brown; Blue	Brown; Blue ; Black	Brown; White; Blue ; Black	Brown; Blue	Brown; Blue
Cable diameter	ø6.5mm (±0.3)	ø6.7mm (±0.3)	ø7mm (±0.3)	ø6.5mm (±0.3)	ø6.5mm (±0.3)
Cable length	1m	1m	1m	1m	1m
Packaging					
Qty/Bag	1 pc / bag	1 pc / bag	1 pc / bag	1 pc / bag	1 pc / bag
Other accessories options					
See accessories section					
Notes:					
Connectors available with different features: See the general features and codification scheme page See the cables list section					

AUTOMOTIVE / METRIPACK CONNECTORS

Automotive connectors interchangeable with DT series with moulded cable



Technical drawing			
Product description			
Connector type	Automotive/Valve connector	Automotive/Valve connector	
Interchangeable to	Deutsch DT04	Deutsch DT04	
Construction type	Valve connector DT series	Valve connector DT series	
Description	Automotive/Valve connector with moulded cable. Connector with electronic.	Automotive/Valve connector with moulded cable. Connector with electronic.	
Part number	HDCMD2DL1BA1Z	HDCMD2VL1BA1Z	
Housing type	Straight 180°	Straight 180°	
Cable gland	Moulded cable	Moulded cable	
Contacts type	Male	Male	
Number of contacts	2poles	2poles	
Housing colour	Transparent	Transparent	
Technical data			
Type of termination	Contacts to crimping wires	Contacts to crimping wires	
Contacts material	Brass + Gold flash	Brass + Gold flash	
Rated voltage	24 V DC	24 V DC	
Circuit type	Led + Diode(1A)	Led + Varistor	
Led colour	Red	Red	
Rated current	1A	1A	
Gasket material	-	-	
Cable type	PUR/PUR Li-YY11Y	PUR/PUR Li-YY11Y	
Cable jacket colour	Black	Black	
No. Conductors / Section	2x0.75mm ²	2x0.75mm ²	
Conductor colours	Brown; Blue	Brown; Blue	
Cable diameter	ø6.5mm (±0.3)	ø6.5mm (±0.3)	
Cable length	1m	1m	
Packaging			
Qty/Bag	1 pc / bag	1 pc / bag	
Other accessories options			
See accessories section			
Notes:			
Connectors available with different features: See the general features and codification scheme page See the cables list section			



Technical drawing				
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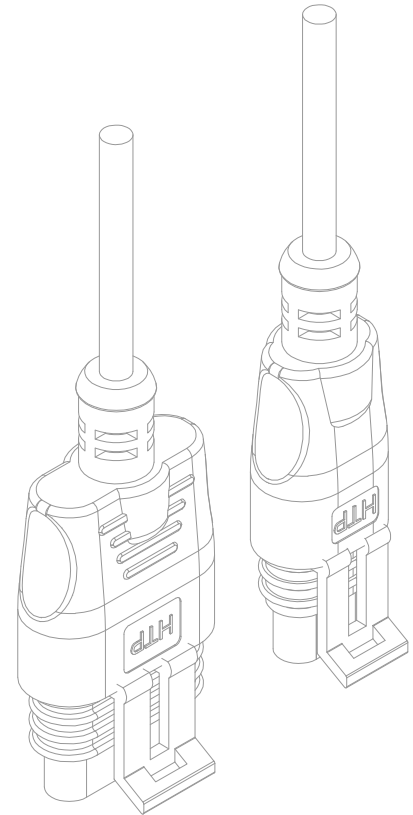
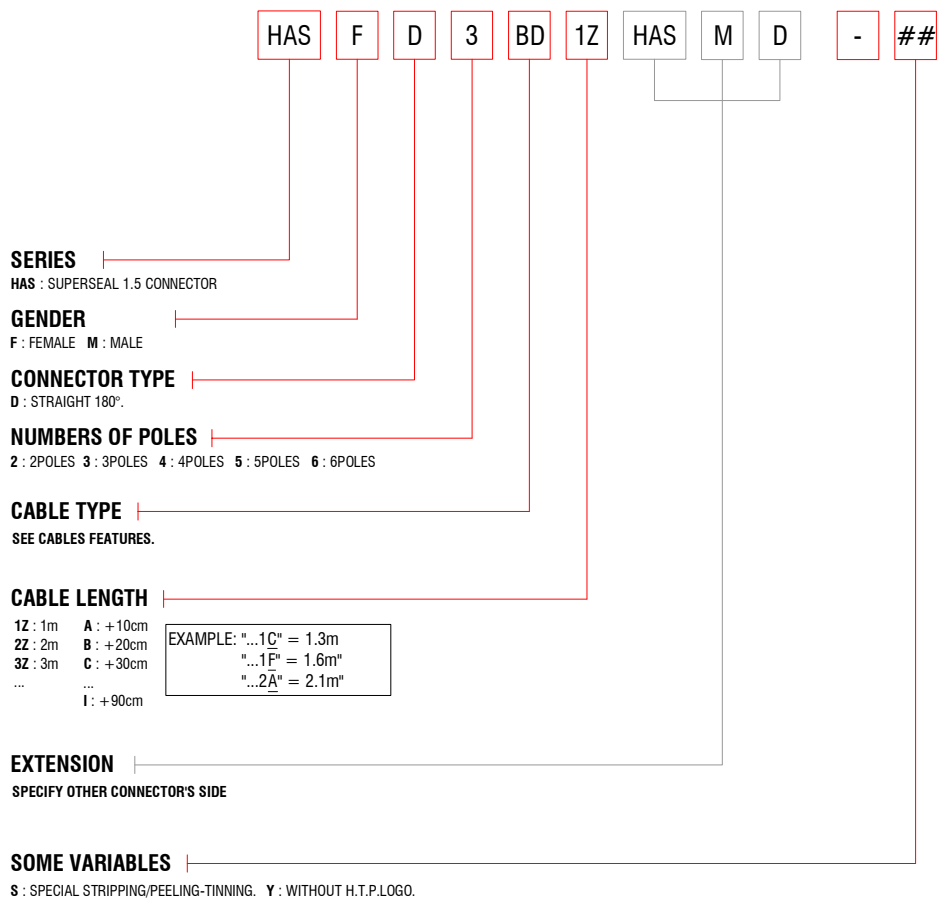
Product description				
Connector type	Automotive-M12 adapter	Automotive-M12 adapter	Automotive-M12 adapter	Automotive-M12 adapter
Interchangeable to	Deutsch DT06	Deutsch DT06	Deutsch DT06	Deutsch DT06
Description	Adapter with automotive connector (interchangeable to Deutsch DT connector) + M12 connector.	Adapter with automotive connector (interchangeable to Deutsch DT connector) + M12 connector.	Adapter with automotive connector (interchangeable to Deutsch DT connector) + M12 connector.	Adapter with automotive connector (interchangeable to Deutsch DT connector) + M12 connector.
Part number	HDCFD2000-12MD	HDCFD3000-12MD	HDCFD2L01-12MD	HDCFD2DL1-12MD
Housing type	Straight 180°	Straight 180°	Straight 180°	Straight 180°
Contacts type	Female	Female	Female	Female
Number of contacts	2poles	3poles	2poles	2poles
Housing colour	Black	Black	Transparent	Transparent
Circular connector type	M12	M12	M12	M12
M12 Connector type	Straight 180°	Straight 180°	Straight 180°	Straight 180°
M12 contacts type	Male 3poles	Male 3poles	Male 3poles	Male 3poles
Number of contacts connected	n°2	n°3	n°2	n°2

Technical data				
Type of termination	Contacts to crimping wires	Contacts to crimping wires	Contacts to crimping wires	Contacts to crimping wires
Contacts material	Brass + Gold flash	Brass + Gold flash	Brass + Gold flash	Brass + Gold flash
M12 coupling nut material	Brass + Nickel plated	Brass + Nickel plated	Brass + Nickel plated	Brass + Nickel plated
Internal cores material	PA	PA	PA	PA
Connector body material	Polypropylene	Polypropylene	Polypropylene	Polypropylene
Rated voltage	48 V AC/DC	48 V AC/DC	24 V AC/DC	24 V DC
Gasket material	Silicone	Silicone	Silicone	Silicone
M12 o-ring material	NBR	NBR	NBR	NBR
Circuit type	-	-	Bipolar Led	Led + Diode(1A)
Led colour	-	-	Red	Red
Rated current	4A	4A	1A	1A

Packaging				
Qty/Bag	1 pc / bag	1 pc / bag	1 pc / bag	1 pc / bag

Other accessories options
See accessories section

Notes:				
			Connector available with different led colour, circuits and voltages.	Connector available with different led colour, circuits and voltages.



• **SUPERSEAL CONNECTORS CABLES:**

Code	Material	Type of cable	Colour	Section	No.core	Cable \varnothing mm ± 0.3	Temperature range °C	Wires colouring
BA	PUR/PUR	Li-YY11Y	Black	0.75mm ²	2	\varnothing 6.5mm	-40°C / +80°C	Brown;Blue
BD	PUR/PUR	Li-YY11Y	Black	0.75mm ²	3	\varnothing 6.7mm	-40°C / +80°C	Brown;Blue;Black
BE	PUR/PUR	Li-YY11Y	Black	0.75mm ²	4	\varnothing 7 mm	-40°C / +80°C	Brown;Blue;Black;White
BF	PUR/PUR	Li-YY11Y	Black	0.75mm ²	5	\varnothing 7.5 mm	-40°C / +80°C	Brown;Blue;Black;White;Grey
BG*	PUR/PUR	Li-YY11Y	Black	0.75mm ²	6	\varnothing 8 mm	-40°C / +80°C	Green; Brown; White; Pink; Grey; Yellow

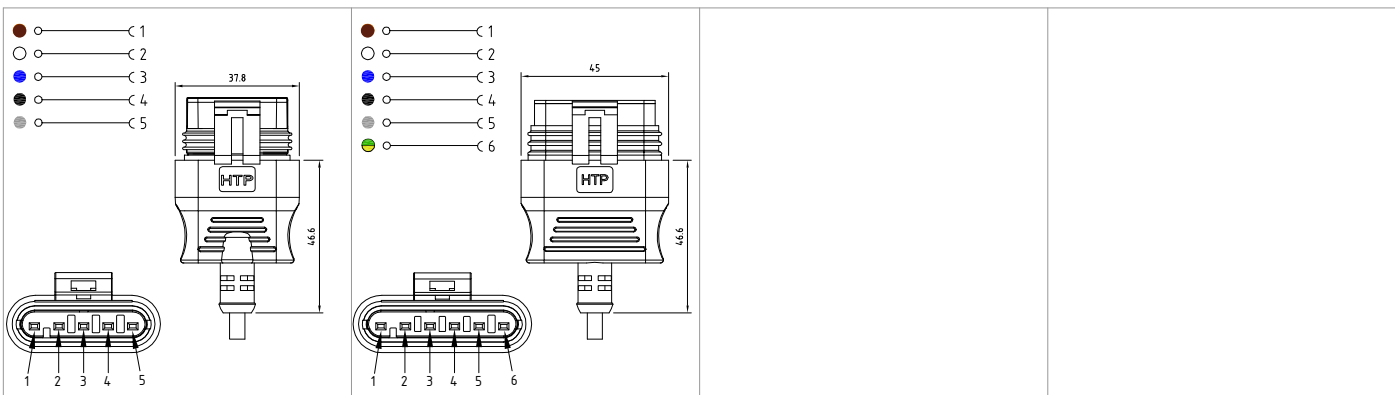
* = Cables with minimum quantity required.

AUTOMOTIVE / METRIPACK CONNECTORS

Superseal 1.5mm connectors with moulded cable



Technical drawing							
Product description							
Connector type	Automotive connector	Automotive connector	Automotive connector	Automotive connector	Automotive connector	Automotive connector	Automotive connector
Interchangeable to	Superseal connector	Superseal connector	Superseal connector	Superseal connector	Superseal connector	Superseal connector	Superseal connector
Description	Automotive connector interchangeable to superseal connector with moulded cable	Automotive connector interchangeable to superseal connector with moulded cable	Automotive connector interchangeable to superseal connector with moulded cable	Automotive connector interchangeable to superseal connector with moulded cable	Automotive connector interchangeable to superseal connector with moulded cable	Automotive connector interchangeable to superseal connector with moulded cable	Automotive connector interchangeable to superseal connector with moulded cable
Part number	HASFD2BA1Z	HASFD3BD1Z	HASFD3BD1Z	HASFD3BD1Z	HASFD4BE1Z	HASFD4BE1Z	HASFD4BE1Z
Housing type	Straight 180°	Straight 180°	Straight 180°	Straight 180°	Straight 180°	Straight 180°	Straight 180°
Cable gland	Moulded cable	Moulded cable	Moulded cable	Moulded cable	Moulded cable	Moulded cable	Moulded cable
Contacts type	Female	Female	Female	Female	Female	Female	Female
Number of contacts	2poles	3poles	3poles	3poles	4poles	4poles	4poles
Housing colour	Black	Black	Black	Black	Black	Black	Black
Technical data							
Type of termination	Contacts to crimp wires	Contacts to crimp wires	Contacts to crimp wires	Contacts to crimp wires	Contacts to crimp wires	Contacts to crimp wires	Contacts to crimp wires
Contacts material	Brass + Sn	Brass + Sn	Brass + Sn	Brass + Sn	Brass + Sn	Brass + Sn	Brass + Sn
Internalcore material	PA+GF, PA	PA+GF, PA	PA+GF, PA	PA+GF, PA	PA+GF, PA	PA+GF, PA	PA+GF, PA
Connector body material	Polypropylene	Polypropylene	Polypropylene	Polypropylene	Polypropylene	Polypropylene	Polypropylene
Seal material	Silicone	Silicone	Silicone	Silicone	Silicone	Silicone	Silicone
Rated voltage	24V DC	24V DC	24V DC	24V DC	24V DC	24V DC	24V DC
Rated current	8A	8A	8A	8A	7A	7A	7A
Protection class	IP67	IP67	IP67	IP67	IP67	IP67	IP67
Operating temperature	-25°C +90°C	-25°C +90°C	-25°C +90°C	-25°C +90°C	-25°C +90°C	-25°C +90°C	-25°C +90°C
Cable type	PUR/PUR Li-YY11Y	PUR/PUR Li-YY11Y	PUR/PUR Li-YY11Y	PUR/PUR Li-YY11Y	PUR/PUR Li-YY11Y	PUR/PUR Li-YY11Y	PUR/PUR Li-YY11Y
Cable jacket colour	Black	Black	Black	Black	Black	Black	Black
No. Conductors / Section	2x0.75mm ²	3x0.75mm ²	3x0.75mm ²	3x0.75mm ²	4x0.75mm ²	4x0.75mm ²	4x0.75mm ²
Conductor colours	Brown; Blue	Brown; Blue; Black	Brown; Blue; Black	Brown; Blue; Black	Brown; White; Blue; Black	Brown; White; Blue; Black	Brown; White; Blue; Black
Cable diameter	ø6.5mm (±0.3)	ø6.7mm (±0.3)	ø6.7mm (±0.3)	ø6.7mm (±0.3)	ø7mm (±0.3)	ø7mm (±0.3)	ø7mm (±0.3)
Cable length	1m	1m	1m	1m	1m	1m	1m
Packaging							
Qty/Bag	1 pc / bag	1 pc / bag	1 pc / bag	1 pc / bag	1 pc / bag	1 pc / bag	1 pc / bag
Other accessories options							
See accessories section							
Notes:							

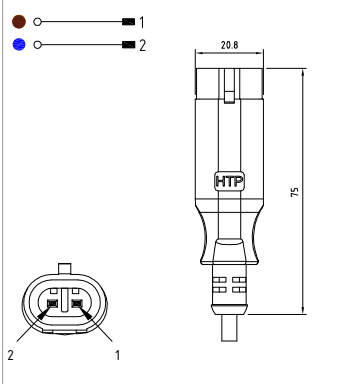
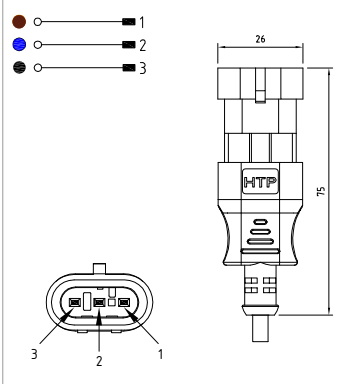
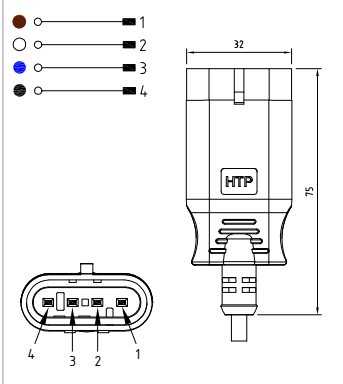


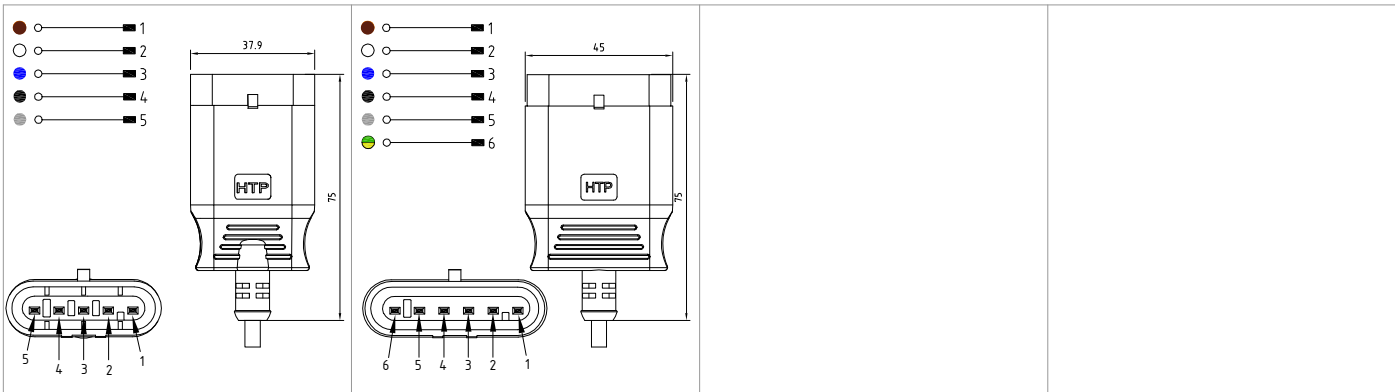
Product description	
Automotive connector	Automotive connector
Superseal connector	Superseal connector
Automotive connector interchangeable to superseal connector with moulded cable	Automotive connector interchangeable to superseal connector with moulded cable
HASFD5BF1Z	HASFD6BG1Z
Straight 180°	Straight 180°
Moulded cable	Moulded cable
Female	Female
5poles	6poles
Black	Black
Technical data	
Contacts to crimp wires	Contacts to crimp wires
Brass + Sn	Brass + Sn
PA+GF, PA	PA+GF, PA
Polypropylene	Polypropylene
Silicone	Silicone
24V DC	24V DC
7A	6A
IP67	IP67
-25°C +90°C	-25°C +90°C
PUR/PUR Li-YY11Y	PUR/PUR Li-YY11Y
Black	Black
5x0.75mm ²	6x0.75mm ²
Brown; White; Blue; Black; Grey	Green; Brown; White; Pink; Grey;Yellow
ø7.5mm (±0.3)	ø8mm (±0.3)
1m	1m
Packaging	
1 pc / bag	1 pc / bag
Other accessories options	
See accessories section	
Notes:	

AUTOMOTIVE / METRIPACK CONNECTORS

Superseal 1.5mm connectors with moulded cable



Technical drawing				
Product description				
Connector type	Automotive connector	Automotive connector	Automotive connector	Automotive connector
Interchangeable to	Superseal connector	Superseal connector	Superseal connector	Superseal connector
Description	Automotive connector interchangeable to superseal connector with moulded cable	Automotive connector interchangeable to superseal connector with moulded cable	Automotive connector interchangeable to superseal connector with moulded cable	Automotive connector interchangeable to superseal connector with moulded cable
Part number	HASMD2BA1Z	HASMD3BD1Z	HASMD4BE1Z	
Housing type	Straight 180°	Straight 180°	Straight 180°	
Cable gland	Moulded cable	Moulded cable	Moulded cable	
Contacts type	Male	Male	Male	
Number of contacts	2poles	3poles	4poles	
Housing colour	Black	Black	Black	
Technical data				
Type of termination	Contacts to crimp wires	Contacts to crimp wires	Contacts to crimp wires	
Contacts material	Brass + Sn	Brass + Sn	Brass + Sn	
Internalcore material	PA+GF, PA	PA+GF, PA	PA+GF, PA	
Connector body material	Polypropylene	Polypropylene	Polypropylene	
Seal material	Silicone	Silicone	Silicone	
Rated voltage	24V DC	24V DC	24V DC	
Rated current	8A	8A	7A	
Protection class	IP67	IP67	IP67	
Operating temperature	-25°C +90°C	-25°C +90°C	-25°C +90°C	
Cable type	PUR/PUR Li-YY11Y	PUR/PUR Li-YY11Y	PUR/PUR Li-YY11Y	
Cable jacket colour	Black	Black	Black	
No. Conductors / Section	2x0.75mm ²	3x0.75mm ²	4x0.75mm ²	
Conductor colours	Brown; Blue	Brown; Blue; Black	Brown; White; Blue; Black	
Cable diameter	ø6.5mm (±0.3)	ø6.7mm (±0.3)	ø7mm (±0.3)	
Cable length	1m	1m	1m	
Packaging				
Qty/Bag	1 pc / bag	1 pc / bag	1 pc / bag	
Other accessories options				
See accessories section				
Notes:				



Product description	
Automotive connector	Automotive connector
Superseal connector	Superseal connector
Automotive connector interchangeable to superseal connector with moulded cable	Automotive connector interchangeable to superseal connector with moulded cable
HASMD5BF1Z	HASMD6BG1Z
Straight 180°	Straight 180°
Moulded cable	Moulded cable
Male	Male
5poles	6poles
Black	Black
Technical data	
Contacts to crimp wires	Contacts to crimp wires
Brass + Sn	Brass + Sn
PA+GF, PA	PA+GF, PA
Polypropylene	Polypropylene
Silicone	Silicone
24V DC	24V DC
7A	6A
IP67	IP67
-25°C +90°C	-25°C +90°C
PUR/PUR Li-YY11Y	PUR/PUR Li-YY11Y
Black	Black
5x0.75mm ²	6x0.75mm ²
Brown; White; Blue; Black; Grey	Green; Brown; White; Pink; Grey;Yellow
ø7.5mm (±0.3)	ø8mm (±0.3)
1m	1m
Packaging	
1 pc / bag	1 pc / bag
Other accessories options	
See accessories section	
Notes:	

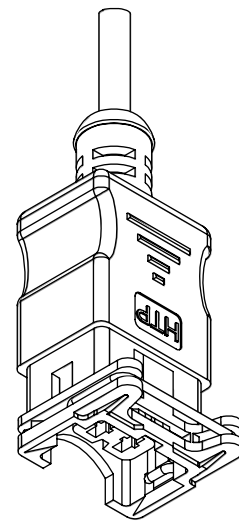
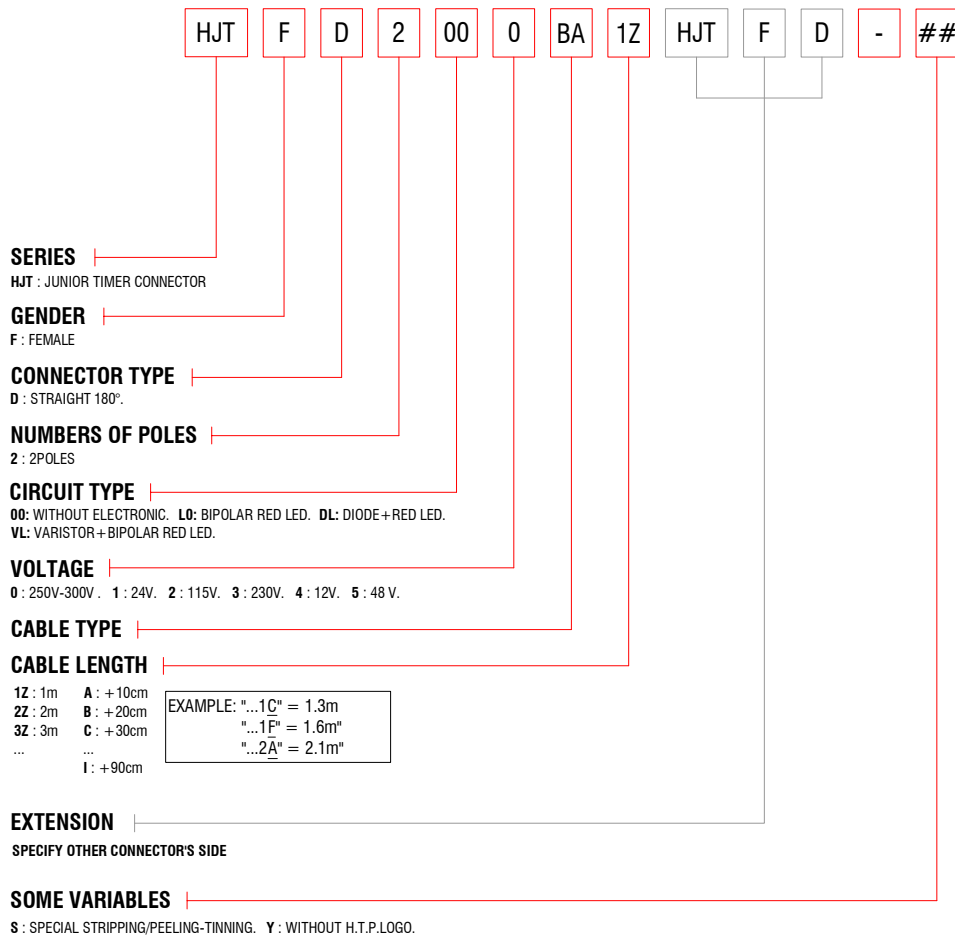
AUTOMOTIVE / METRIPACK CONNECTORS

Superseal 1.5mm connectors with moulded cable



Technical drawing									
Product description									
Connector type	Automotive-M12 adapter	Automotive-M12 adapter	Automotive-M12 adapter	Automotive-M12 adapter	Automotive-M12 adapter	Automotive-M12 adapter	Automotive-M12 adapter	Automotive-M12 adapter	Automotive-M12 adapter
Interchangeable to	Superseal connector	Superseal connector	Superseal connector	Superseal connector	Superseal connector	Superseal connector	Superseal connector	Superseal connector	Superseal connector
Description	Adapter with automotive connector (interchangeable to superseal connector) + M12 conn.	Adapter with automotive connector (interchangeable to superseal connector) + M12 conn.	Adapter with automotive connector (interchangeable to superseal connector) + M12 conn.	Adapter with automotive connector (interchangeable to superseal connector) + M12 conn.	Adapter with automotive connector (interchangeable to superseal connector) + M12 conn.	Adapter with automotive connector (interchangeable to superseal connector) + M12 conn.	Adapter with automotive connector (interchangeable to superseal connector) + M12 conn.	Adapter with automotive connector (interchangeable to superseal connector) + M12 conn.	Adapter with automotive connector (interchangeable to superseal connector) + M12 conn.
Part number	HASFD2000-12MD	HASFD2000-12MD	HASFD2000-12MD	HASFD4000-12MD	HASFD4000-12MD	HASFD4000-12MD	HASFD4000-12MD	HASFD5000-12MD	HASFD5000-12MD
Housing type	Straight 180°	Straight 180°	Straight 180°	Straight 180°	Straight 180°	Straight 180°	Straight 180°	Straight 180°	Straight 180°
Contacts type	Female	Female	Female	Female	Female	Female	Female	Female	Female
Number of contacts	2poles	3poles	3poles	4poles	4poles	4poles	4poles	5poles	5poles
Housing colour	Black	Black	Black	Black	Black	Black	Black	Black	Black
Circular connector type	M12	M12	M12	M12	M12	M12	M12	M12	M12
M12 Connector type	Straight 180°	Straight 180°	Straight 180°	Straight 180°	Straight 180°	Straight 180°	Straight 180°	Straight 180°	Straight 180°
M12 contacts type	Male 3poles	Male 3poles	Male 3poles	Male 4poles	Male 4poles	Male 4poles	Male 4poles	Male 5poles	Male 5poles
Number of contacts connected	n°2	n°3	n°3	n°4	n°4	n°4	n°4	n°5	n°5
Technical data									
Type of termination	Contacts to crimping wires	Contacts to crimping wires	Contacts to crimping wires	Contacts to crimping wires	Contacts to crimping wires	Contacts to crimping wires	Contacts to crimping wires	Contacts to crimping wires	Contacts to crimping wires
Contacts material	Brass + Sn , Brass+Gold flash	Brass + Sn , Brass+Gold flash	Brass + Sn , Brass+Gold flash	Brass + Sn , Brass+Gold flash	Brass + Sn , Brass+Gold flash	Brass + Sn , Brass+Gold flash	Brass + Sn , Brass+Gold flash	Brass + Sn , Brass+Gold flash	Brass + Sn , Brass+Gold flash
M12 coupling nut material	Brass+Nickel plated	Brass+Nickel plated	Brass+Nickel plated	Brass+Nickel plated	Brass+Nickel plated	Brass+Nickel plated	Brass+Nickel plated	Brass+Nickel plated	Brass+Nickel plated
Internalcores material	PA+GF, PA	PA+GF, PA	PA+GF, PA	PA+GF, PA	PA+GF, PA	PA+GF, PA	PA+GF, PA	PA+GF, PA	PA+GF, PA
Connector body material	Polypropylene	Polypropylene	Polypropylene	Polypropylene	Polypropylene	Polypropylene	Polypropylene	Polypropylene	Polypropylene
Rated voltage	24 V DC	24 V DC	24 V DC	24 V DC	24 V DC	24 V DC	24 V DC	24 V DC	24 V DC
Gasket material	Silicone	Silicone	Silicone	Silicone	Silicone	Silicone	Silicone	Silicone	Silicone
M12 o-ring material	NBR	NBR	NBR	NBR	NBR	NBR	NBR	NBR	NBR
Circuit type	-	-	-	-	-	-	-	-	-
Led colour	-	-	-	-	-	-	-	-	-
Rated current	4A	4A	4A	4A	4A	4A	4A	4A	4A
Packaging									
Qty/Bag	1 pc / bag	1 pc / bag	1 pc / bag	1 pc / bag	1 pc / bag	1 pc / bag	1 pc / bag	1 pc / bag	1 pc / bag
Other accessories options									
See accessories section									
Notes:									
Connectors available with different features: See the general features and codification scheme page See the cables list section									

• **GENERAL FEATURES OF MOULDED CONNECTORS:**



• **SUPERSEAL CONNECTORS CABLES:**

Code	Material	Type of cable	Colour	Section	No.core	Cable \varnothing mm ± 0.3	Temperature range °C	Wires colouring
A2	PVC/PVC	IEC332-1 H05VVF	Black	0.75mm ²	2	\varnothing 6mm	-20°C / +80°C	Brown;Blue
A9	PUR/PUR		Black	0.75mm ²	2	\varnothing 6mm	-40°C / +80°C	Brown;Blue
BA	PUR/PUR	Li-YY11Y	Black	0.75mm ²	2	\varnothing 6.5mm	-40°C / +80°C	Brown;Blue

AUTOMOTIVE / METRIPACK CONNECTORS

Junior Timer connectors



Technical drawing					
Product description					
Connector type	Automotive/Valve connector	Automotive/Valve connector	Automotive/Valve connector	Automotive/Valve connector	Automotive/Valve connector
Interchangeable to	Junior Timer	Junior Timer	Junior Timer	Junior Timer	Junior Timer
Description	Automotive connector with moulded cable. Connector without electronic.	Automotive connector with moulded cable. Connector with electronic.	Automotive connector with moulded cable. Connector with electronic.	Automotive connector with moulded cable. Connector with electronic.	Automotive connector with moulded cable. Connector with electronic.
Part number	HJTFD2000BA1Z	HJTFD2L01BA1Z	HJTFD2DL1BA1Z	HJTFD2VL1BA1Z	
Housing type	Straight 180°	Straight 180°	Straight 180°	Straight 180°	
Cable gland	Moulded cable	Moulded cable	Moulded cable	Moulded cable	
Contacts type	Female	Female	Female	Female	
Number of contacts	2poles	2poles	2poles	2poles	
Housing colour	Black	Transparent	Transparent	Transparent	
Technical data					
Type of termination	Contacts to crimping wires	Contacts to crimping wires	Contacts to crimping wires	Contacts to crimping wires	
Contacts material	Brass + Gold flash	Brass + Gold flash	Brass + Gold flash	Brass + Gold flash	
Internalcore material	PA66 + GF; Spring:Steel	PA66 + GF; Spring:Steel	PA66 + GF; Spring:Steel	PA66 + GF; Spring:Steel	
Connector body material	Polypropylene	Polypropylene	Polypropylene	Polypropylene	
Rated voltage	1-230 V AC/DC	24 V AC/DC	24 V DC	24 V AC/DC	
Circuit type	-	Bipolar Led	Led + Diode(1A)	Led + Varistor	
Led colour	-	Red	Red	Red	
Rated current	4A	1A	1A	1A	
Protection class	IP65	IP65	IP65	IP65	
Cable type	PUR/PUR Li-YY11Y	PUR/PUR Li-YY11Y	PUR/PUR Li-YY11Y	PUR/PUR Li-YY11Y	
Cable jacket colour	Black	Black	Black	Black	
No. Conductors / Section	2x0.75mm ²	2x0.75mm ²	2x0.75mm ²	2x0.75mm ²	
Conductor colours	Brown; Blue	Brown; Blue	Brown; Blue	Brown; Blue	
Cable diameter	ø6.5mm (±0.3)	ø6.5mm (±0.3)	ø6.5mm (±0.3)	ø6.5mm (±0.3)	
Cable length	1m	1m	1m	1m	
Packaging					
Qty/Bag	1 pc / bag	1 pc / bag	1 pc / bag	1 pc / bag	
Other accessories options					
See accessories section					
Notes:					
Connectors available with different LED colours.					

