



**TECHNICAL SPECIFICATIONS  
of the cable system  
of CAN j1939/S6 Telematics interface**

**Version 1.0**



---

**TECHNOTON**

---

ADVANCED MACHINERY TELEMATICS

## Contents

Contents .....	2
1 Introduction.....	3
2 Technical specifications.....	4
2.1 Basic parameters .....	4
2.2 General specifications .....	5
2.3 Climatic specifications.....	6
2.4 Mechanical specifications .....	7
Contacts.....	8

# 1 Introduction

This document contains information on technical specifications of the **cable system** of [CAN j1939/S6 Telematics interface](#) (hereinafter CS S6), developed by JV [Technoton](#), Minsk, Belarus.

CS S6 — is designed for data transfer from standard and additional Vehicle Onboard equipment by means of CAN j1939/S6 Telematics interface, for [Units](#) power supply and their configuration using service adapters.

The information on the cable system, Units and service adapters of CAN j1939/S6 Telematics interface is provided in [CAN j1939/S6 Telematics interface Operation manual](#).

## 2 Technical specifications

### 2.1 Basic parameters

- CS S6 meets the requirements of GOST 23544 "Wire bundles for automobile and tractor equipment" and Technical Conditions TU BY 800003266.009-2016.

Note — In GOST 23544 requirements regarding stability towards electromagnetic interference are not outlined. However, all S6 Units manufactured by [Technoton](#) ([DUT-E](#) fuel level sensors, [DFM](#) fuel flow meters [Crocodile](#) contactless readers etc.) undergo electromagnetic compatibility tests, in accordance with UN/ECE Rules #10 the respective certificates of which are available. Since CS S6 is used for connection of Units during tests, this implicitly confirms the cables stability towards electromagnetic interference.

- CS S6 is certified to comply with the Customs Union Technical Regulations (CU TR) 018/2011.
- CS S6 consists of non-reinforced wires joined together and electrical connectors providing the integrity of electric circuits.
- In CS S6, wires of PVA, PVAM or NV grades (GOST 17515) and the solder alloy of POG-61 grade (GOST 21931) are used.

Note — The employment of acid flux during soldering is not allowed.

- To protect the wire and contact connection points in CS S6, tubes manufactured from 305 TV40 PVC compound (GOST 19034) are used.
- Wires in cables are fixed with clip bands which may be:
  - heat shrink tube made of high-pressure polyethylene composite (GOST 16336, GOST 16337);
  - TV40 tube (GOST 19034);
  - goffered tube.

Note — It is allowed to connect wires in cables using clamps. Connection of wires inside cables by twisting them up is not allowed.

## 2.2 General specifications

Table 1 — General specifications of CS S6

Parameter, measurement units	Value
MAX voltage range, V, not more than	48
Cross-section of each wire in cables, mm <sup>2</sup> , not less than	0.35
Length of cables branches, mm, not less than	50
Length of cables branches up to the connection socket, mm, not less than	100
Space between two neighboring cable branches, mm, not less than	10
Lay pitch of wires of SAE J1939 CAN-bus, mm	30
Cables resistance against aggressive environment	fuel/lubricants-resistant
Cables fire resistance	non-inflammable
Minimal time to failure, h, not less than	10000
Average life, years, not less than	10

## 2.3 Climatic specifications

Table 2 — Climatic specifications of CS S6

<b>Parameter, measurement units</b>	<b>Value</b>
Ambient operation temperature range, °C	-40...+85
Resistance to short-time impact of high temperature, °C, not more than	+100
Upper limit of relative humidity at 40 °C ambient temperature, %, not more than	98
Lower limit of atmospheric pressure, kPa, not less than	61.5

## 2.4 Mechanical specifications

Table 3 — Mechanical specifications of CS S6

Parameter, measurement units	Value
Force needed for connector locking, N, not more than	100
Force needed for connector unlocking, N	10...100
Vibration resistance	Maximal acceleration up to 98 m/s <sup>2</sup> at 50 Hz frequency
Shock resistance	10000 blows of 5 ms duration, with acceleration up to 147 m/s <sup>2</sup>

## Contacts

### Manufacturer



**Tel/Fax: +375 17 240-39-73**

<https://www.jv-technoton.com/>

<http://s6.jv-technoton.com/>

**E-mail: [marketing@technoton.by](mailto:marketing@technoton.by)**



9001:2015  
certified quality



### Technical support

**E-mail: [support@technoton.by](mailto:support@technoton.by)**

