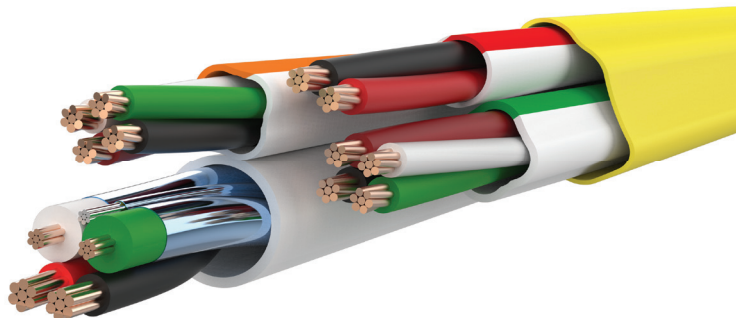


## OSDP Access Control Composite Cable

Lake Cable's OSDP (Open Supervised Device Protocol) cable is expertly engineered to meet the demands of modern access control systems, offering superior performance, reliability, and compliance with the latest security standards. Designed specifically to support the bi-directional, encrypted communication required by OSDP-enabled devices, this cable ensures secure, real-time data transmission between access control panels and peripheral devices.

Manufactured with precision and durability in mind, Lake Cable's OSDP solutions provide a future-ready foundation for both new installations and system upgrades in commercial, industrial, and government security environments.



| Lake Cable Part Number | Construction                                                                          | Jacket Color | Approval                        |
|------------------------|---------------------------------------------------------------------------------------|--------------|---------------------------------|
| OSDP2ELEM-04           | 22 AWG 1 Pair RS485 + 18 AWG 4 Conductor OAS                                          | Yellow       | C(UL)US CMP FT6                 |
| OSDP2ELEM-09           | 22 AWG 1 Pair RS485 + 18 AWG 4 Conductor                                              | White        | C(UL)US CMP FT6                 |
| P162PFF222S/485        | 22/1PR RS485 Shielded + 16/2C                                                         | Natural      | CL3P or C(UL) US CMP FT6        |
| P162PFF222S/485-00     | 22/1PR RS485 Shielded + 16/2C                                                         | Black        | CL3P or C(UL) US CMP FT6        |
| PFF222EPST/485-09      | 22/2PR Each Pair Shielded RS485                                                       | White        | CL3P or FPLP or C(UL)US CMP FT6 |
| PFF242EPST/X-090SDP    | 24/2PR Each Pair Shielded RS485                                                       | White        | CL3P or FPLP or C(UL)US CMP FT6 |
| PFF222PRCST/X-040SDP   | 22/2PR Overall Shield RS485                                                           | Yellow       | CL3P or FPLP or C(UL)US CMP FT6 |
| PFF222PRCST/X-090SDP   | 22/2PR Overall Shield RS485                                                           | White        | CL3P or FPLP or C(UL)US CMP FT6 |
| OSDPACCESS2P-04        | 22/2PR RS485 Shielded + 18/4C + 22/4C + 22/2C Individual and Overall jacket           | Yellow       | CL3P or C(UL) US CMP FT6        |
| OSDPCOMB01-04          | (22/1PR RS485 Shielded + 18/2C) + 18/4C + 22/4C + 22/2C Individual and Overall Jacket | Yellow       | CL3P or C(UL) US CMP FT6        |

To learn more about how OSDP technology offers the ultimate security and protection for your card readers, call one of our sales representatives: **888-518-8086**



## What is OSDP?

Open Supervised Device Protocol (OSDP) is an access control communications standard developed by the Security Industry Association (SIA) to improve interoperability among access control and security products.

OSDP was approved as an international standard by the International Electrotechnical Commission in May 2020, and was published as IEC 60839-11-5.

## Why specify OSDP?

SIA encourages broad adoption of this standard – which is already in wide use by many leading manufacturers like Cypress, HID Global and Mercury – and recommends specifying OSDP for any access control installations that require real security and/or will be used in government and other higher-security settings. SIA OSDP is particularly valuable for government applications because it meets federal access control requirements like PKI for FICAM.

## Benefits of OSDP

Compared to common low-security legacy protocols, the OSDP standard offers:

### Higher Security

- OSDP is more secure than the most common access control communication protocols
- OSDP Secure Channel supports high-end AES-128 encryption (required in federal government applications)
- OSDP constantly monitors wiring to protect against attack threats

### Advanced Functionality

- OSDP supports advanced smartcard technology applications, including PKI/FICAM and biometrics
- OSDP supports bi-directional communications among devices
- OSDP supports advanced user interfaces, including welcome messages and text prompts
- OSDP's use of two wires instead of 12+ allows for multi-drop installation, supervised connections to indicate reader malfunctions, and scalability to connect more field devices

### Ease of Use

- Audio-visual user feedback mechanisms provide a rich, user-centric access control environment
- Guesswork is eliminated since encryption and authentication are predefined
- Low cost of implementation on an embedded device

## More Interoperability

- Using OSDP enables communication among different manufacturers' devices and solutions
- The OSDP standard applies to peripheral devices such as card readers and other devices at secured access doors/gates and their control panels
- SIA promotes the OSDP standard among manufacturers at regular "plugfests" and at SIA InteropFest, an annual interoperability event held at the ISC West trade show
- The OSDP specification is currently recommended when TCP/IP, USB or other common protocols do not lend themselves to the application
- The OSDP specification is extensible to IP environments and the OSDP Working Group is working on deploying OSDP over IP soon

## Compliance:

- Cable suitable for installation under NEC (NFPA 70) articles 800, 725 and 760 guidelines
- Cable suitable for installation in Canada under Section 60 of CEC, Part 1
- C(UL)US Listed as CMP per UL standard 444 and per CSA C22.2 No. 214
- UL Listed as CL3P per UL standard 13 or FPLP per UL standard 1424
- Cable meets NFPA 262 (Steiner tunnel) flame test
- Cable meets RoHS 2002/95/EC Directive, RoHS 2 2011/65/EU Directive, RoHS 3 2015/863/EU Directive
- Cable is REACH compliant per Regulation (EC) No 1907/2006 (197) Updated January 15, 2019
- Proudly made in the USA

Lake Cable is recognized for providing clients with better, smarter and faster service. We offer flexibility with design and provide solutions that fit your applications' exact specifications and requirements, with products that are proudly made in the USA. Shortest minimum manufacturing runs and shortest lead times make Lake Cable **BETTER. SMARTER. FASTER.**

**Call: 888-518-8086 or visit: [lakecable.com](http://lakecable.com)  
to see our entire OSDP product line**

