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# Active module - UM-2KS50/32RM/MR/21/SPT/CS - 2968519

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32-channel relay module for Yokogawa ADV 551 and ADV 561 digital output modules. Redundant system connection, spring-cage connection on the field side. Pluggable relays with status indicator (LED) per channel.

## Key Commercial Data

| | |
|---|---|
| Packing unit | 1 STK |
| Weight per Piece (excluding packing) | 5,000.000 g |
| Custom tariff number | 85369010 |
| Country of origin | Germany |

## Technical data

### Dimensions

| | |
|---|---|
| Width | 506 mm |
| Height | 126 mm |
| Depth | 64 mm |

### Ambient conditions

| | |
|---|---|
| Ambient temperature (operation) | -20 °C ... 50 °C |
| Ambient temperature (storage/transport) | -20 °C ... 70 °C |

### Input data

| | |
|---|---|
| Nominal input voltage $U_N$ | 24 V DC |
| Input voltage range in reference to $U_N$ | 0.9 ... 1.1 |
| Typical input current at $U_N$ | 9 mA |
| Typical response time | 5 ms |
| Typical release time | 7 ms |
| Protective circuit/component | Damping diode |
| | Damping diode |

# Active module - UM-2KS50/32RM/MR/21/SPT/CS - 2968519

## Technical data

### Input data

| | Fuse |
|---|---|
| Operating voltage display | Green LED |
| Status display/channel | Yellow LED |

### Output data

| Contact type | 1 PDT |
|---|---|
| Contact material | AgSnO |
| Maximum switching voltage | 250 V AC/DC |
| Minimum switching voltage | 12 V AC/DC |
| Limiting continuous current | 4 A (see derating curve) |
| Min. switching current | 100 mA |
| Interrupting rating (ohmic load) max. | 96 W (at 24 V DC) |
| | 20 W (at 48 V DC) |
| | 18 W (at 60 V DC) |
| | 23 W (at 110 V DC) |
| | 40 W (at 220 V DC) |
| | 1000 VA (for 250 V AC) |

### General

| No. of channels | 32 |
|---|---|
| Mechanical service life | Approx. $2 \times 10^7$ cycles |
| Operating mode | 100% operating factor |
| Mounting position | any |
| Assembly instructions | In rows with zero spacing |
| Standards/regulations | DIN EN 50178 |
| Rated surge voltage | 4 kV (Basic insulation between output contact current paths) |
| | 6 kV (Safe isolation and reinforced insulation between input circuit and output contact paths) |
| Degree of pollution | 2 |
| Overvoltage category | III |

### Connection data for connection 1

| Connection name | Field level |
|---|---|
| Connection method | Spring-cage connection |
| Conductor cross section solid | 0.2 mm² ... 4 mm² |
| Conductor cross section flexible | 0.2 mm² ... 2.5 mm² |
| Conductor cross section AWG | 24 ... 12 |

### Connection data for connection 2

| Connection name | Controller level |
|---|---|

# Active module - UM-2KS50/32RM/MR/21/SPT/CS - 2968519

## Technical data

### Connection data for connection 2

| | |
|---|---|
| Connection method | Yokogawa KS-compatible |
| Torque | 0.5 Nm |
| Number of connections | 2 |
| Number of positions | 50 |
| Note | Usable system cables: Phoenix Contact YUC50, Yokogawa AKB331 |

### Supported controller

| | |
|---|---|
| Corresponding control | YOKOGAWA CS3000 CentumVP |
| Corresponding I/O card | ADV551 |
| | ADV561 |
| Corresponding control | YOKOGAWA STARDOM |
| Corresponding I/O card | NFDV551 |
| | NFDV561 |

### Standards and Regulations

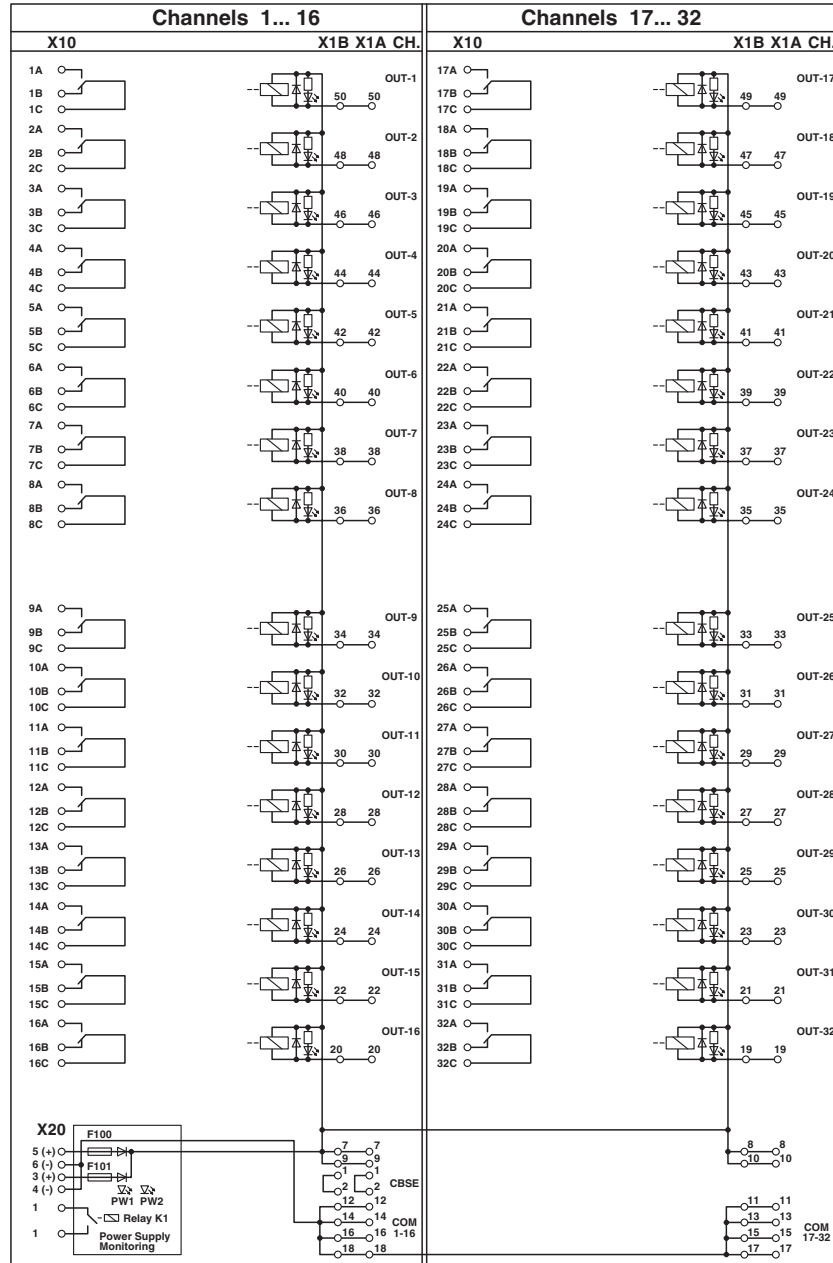| | |
|---|---|
| Standards/regulations | DIN EN 50178 |
| Degree of pollution | 2 |
| Overvoltage category | III |

## Drawings

# Active module - UM-2KS50/32RM/MR/21/SPT/CS - 2968519

Dimensional drawing

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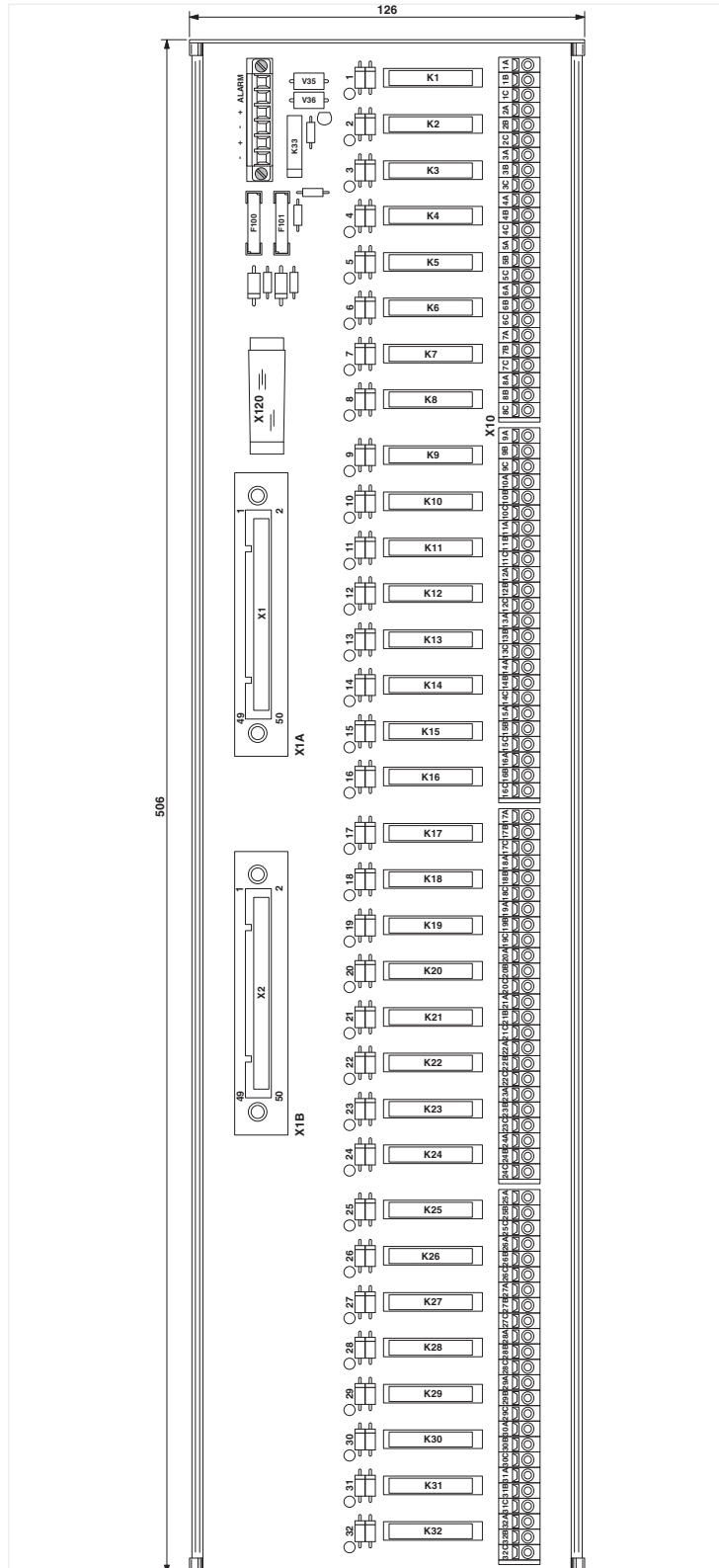
# Active module - UM-2KS50/32RM/MR/21/SPT/CS - 2968519

Circuit diagram



## Classifications

### eCl@ss

| eCl@ss 4.0 | 27371001 |
| --- | --- |
| eCl@ss 4.1 | 27371001 |

# Active module - UM-2KS50/32RM/MR/21/SPT/CS - 2968519

## Classifications

### eCl@ss

| eCl@ss 5.0 | 27371001 |
|---|---|
| eCl@ss 5.1 | 27250313 |
| eCl@ss 6.0 | 27371001 |
| eCl@ss 7.0 | 27371001 |
| eCl@ss 8.0 | 27141152 |
| eCl@ss 9.0 | 27141152 |

### ETIM

| ETIM 2.0 | EC001437 |
|---|---|
| ETIM 3.0 | EC000196 |
| ETIM 4.0 | EC000196 |
| ETIM 5.0 | EC002780 |

### UNSPSC

| UNSPSC 6.01 | 30211824 |
|---|---|
| UNSPSC 7.0901 | 39121421 |
| UNSPSC 11 | 39121421 |
| UNSPSC 12.01 | 39121421 |
| UNSPSC 13.2 | 39121421 |

## Accessories

### Accessories

### Front adapter

Front adapters - FLK 50-PA/EZ-DR/KS/ 100/YUC - 2900991



Cast front adapter with attached round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 1.0 m

Front adapters - FLK 50-PA/EZ-DR/KS/ 200/YUC - 2314299



Cast front adapter with attached round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 2.0 m

# Active module - UM-2KS50/32RM/MR/21/SPT/CS - 2968519

## Accessories

Front adapters - FLK 50-PA/EZ-DR/KS/ 300/YUC - 2314309

Cast front adapter with attached round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 3.0 m

Front adapters - FLK 50-PA/EZ-DR/KS/ 400/YUC - 2314312

Cast front adapter with attached round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 4.0 m

Front adapters - FLK 50-PA/EZ-DR/KS/ 500/YUC - 2321499

Cast front adapter with attached round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 5.0 m

Front adapters - FLK 50-PA/EZ-DR/KS/ 600/YUC - 2314927

Cast front adapter with attached round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 6.0 m

Front adapters - FLK 50-PA/EZ-DR/KS/ 700/YUC - 2321509

Cast front adapter with attached round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 7.0 m

PHŒNIX
CONTACT

# Active module - UM-2KS50/32RM/MR/21/SPT/CS - 2968519

## Accessories

Front adapters - FLK 50-PA/EZ-DR/KS/ 800/YUC - 2314930

Cast front adapter with attached round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 8.0 m

Front adapters - FLK 50-PA/EZ-DR/KS/ 900/YUC - 2321512

Cast front adapter with attached round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 9.0 m

Front adapters - FLK 50-PA/EZ-DR/KS/1000/YUC - 2314325

Cast front adapter with attached round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 10.0 m

Front adapters - FLK 50-PA/EZ-DR/KS/1100/YUC - 2321389

Cast front adapter with attached round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 11.0 m

Front adapters - FLK 50-PA/EZ-DR/KS/1200/YUC - 2321525

Cast front adapter with attached round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 12.0 m

# Active module - UM-2KS50/32RM/MR/21/SPT/CS - 2968519

## Accessories

Front adapters - FLK 50-PA/EZ-DR/KS/1300/YUC - 2321392

Cast front adapter with attached round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 13.0 m

Front adapters - FLK 50-PA/EZ-DR/KS/1400/YUC - 2321402

Cast front adapter with attached round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 14.0 m

Front adapters - FLK 50-PA/EZ-DR/KS/1500/YUC - 2314338

Cast front adapter with attached round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 15.0 m

Front adapters - FLK 50-PA/EZ-DR/KS/1600/YUC - 2321538

Cast front adapter with attached round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 16.0 m

Front adapters - FLK 50-PA/EZ-DR/KS/1700/YUC - 2321541

Cast front adapter with attached round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 17.0 m

# Active module - UM-2KS50/32RM/MR/21/SPT/CS - 2968519

## Accessories

Front adapters - FLK 50-PA/EZ-DR/KS/1800/YUC - 2321554

Cast front adapter with attached round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 18.0 m

Front adapters - FLK 50-PA/EZ-DR/KS/1900/YUC - 2321567

Cast front adapter with attached round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 19.0 m

Front adapters - FLK 50-PA/EZ-DR/KS/2000/YUC - 2314503

Cast front adapter with attached round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 20.0 m

Front adapters - FLK 50-PA/EZ-DR/KS/2500/YUC - 2314516

Cast front adapter with attached round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 25.0 m

Front adapters - FLK 50-PA/EZ-DR/KS/3000/YUC - 2314529

Cast front adapter with attached round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 30.0 m

# Active module - UM-2KS50/32RM/MR/21/SPT/CS - 2968519

## Accessories

Front adapters - FLK 50-PA/EZ-DR/KS/5000/YUC - 2318981

Cast front adapter with attached round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 50.0 m

Front adapters - FLK 50-PA/EZ-DR/HF/KS/ 100/YUC - 2904739

Cast front adapter with attached, halogen-free round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 1.0 m

Front adapters - FLK 50-PA/EZ-DR/HF/KS/ 200/YUC - 2904740

Cast front adapter with attached, halogen-free round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 2.0 m

Front adapters - FLK 50-PA/EZ-DR/HF/KS/ 300/YUC - 2904741

Cast front adapter with attached, halogen-free round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 3.0 m

Front adapters - FLK 50-PA/EZ-DR/HF/KS/ 400/YUC - 2904742

Cast front adapter with attached, halogen-free round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 4.0 m

# Active module - UM-2KS50/32RM/MR/21/SPT/CS - 2968519

## Accessories

Front adapters - FLK 50-PA/EZ-DR/HF/KS/ 500/YUC - 2904636

Cast front adapter with attached, halogen-free round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 5.0 m

Front adapters - FLK 50-PA/EZ-DR/HF/KS/ 600/YUC - 2904743

Cast front adapter with attached, halogen-free round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 60.0 m

Front adapters - FLK 50-PA/EZ-DR/HF/KS/ 700/YUC - 2904744

Cast front adapter with attached, halogen-free round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 7.0 m

Front adapters - FLK 50-PA/EZ-DR/HF/KS/ 800/YUC - 2904745

Cast front adapter with attached, halogen-free round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 8.0 m

Front adapters - FLK 50-PA/EZ-DR/HF/KS/ 900/YUC - 2904746

Cast front adapter with attached, halogen-free round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 9.0 m

# Active module - UM-2KS50/32RM/MR/21/SPT/CS - 2968519

## Accessories

Front adapters - FLK 50-PA/EZ-DR/HF/KS/1000/YUC - 2904637

Cast front adapter with attached, halogen-free round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 10.0 m

Front adapters - FLK 50-PA/EZ-DR/HF/KS/1500/YUC - 2904638

Cast front adapter with attached, halogen-free round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 15.0 m

Front adapters - FLK 50-PA/EZ-DR/HF/KS/2000/YUC - 2904487

Cast front adapter with attached, halogen-free round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 20.0 m

Front adapters - FLK 50-PA/EZ-DR/HF/KS/2500/YUC - 2904639

Cast front adapter with attached, halogen-free round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 25.0 m

Front adapters - FLK 50-PA/EZ-DR/HF/KS/3000/YUC - 2904640

Cast front adapter with attached, halogen-free round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 30.0 m

# Active module - UM-2KS50/32RM/MR/21/SPT/CS - 2968519

## Accessories

Front adapters - FLK 50-PA/EZ-DR/HF/KS/3500/YUC - 2904641

Cast front adapter with attached, halogen-free round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 35.0 m

Front adapters - FLK 50-PA/EZ-DR/HF/KS/4000/YUC - 2904642

Cast front adapter with attached, halogen-free round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 40.0 m

Front adapters - FLK 50-PA/EZ-DR/HF/KS/4500/YUC - 2904643

Cast front adapter with attached, halogen-free round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 45.0 m

Front adapters - FLK 50-PA/EZ-DR/HF/KS/5000/YUC - 2904644

Cast front adapter with attached, halogen-free round cable and a 50-pos. socket strip injection-molded on both sides for the connection of Yokogawa controllers. Cable length: 50.0 m

## System cable

Cable - FLK-MIL50/EZ-DR/KS/ 200/YCS - 2314590

Round cable set for Yokogawa CS3000 CentumVP ADV561, ADV161 with 1 x IDC/FLK socket strip (50-position) on 1 x Yokogawa, KS compatible (50-position), Cable length: 2 m

# Active module - UM-2KS50/32RM/MR/21/SPT/CS - 2968519

## Accessories

Cable - FLK-MIL50/EZ-DR/KS/ 300/YCS - 2314781

Assembled shielded round cable for Yokogawa CS3000 CentumVP ADV561, ADV161 with 1 x IDC/FLK socket strip (50-position) on 1 x Yokogawa, KS compatible (50-position), Cable length: 3 m

Cable - FLK-MIL50/EZ-DR/KS/ 400/YCS - 2314794

Assembled shielded round cable for Yokogawa CS3000 CentumVP ADV561, ADV161 with 1 x IDC/FLK socket strip (50-position) on 1 x Yokogawa, KS compatible (50-position), Cable length: 4 m

Cable - FLK-MIL50/EZ-DR/KS/1000/YCS - 2314804

Assembled shielded round cable for Yokogawa CS3000 CentumVP ADV561, ADV161 with 1 x IDC/FLK socket strip (50-position) on 1 x Yokogawa, KS compatible (50-position), Cable length: 10 m

Cable - FLK-MIL50/EZ-DR/KS/1500/YCS - 2314817

Assembled shielded round cable for Yokogawa CS3000 CentumVP ADV561, ADV161 with 1 x IDC/FLK socket strip (50-position) on 1 x IDC/FLK socket strip (50-position), Cable length: 15 m

Cable - FLK-MIL50/EZ-DR/KS/2000/YCS - 2314820

Assembled shielded round cable for Yokogawa CS3000 CentumVP ADV561, ADV161 with 1 x IDC/FLK socket strip (50-position) on 1 x IDC/FLK socket strip (50-position), Cable length: 20 m

# Active module - UM-2KS50/32RM/MR/21/SPT/CS - 2968519

## Accessories

Cable - FLK-MIL50/EZ-DR/KS/3000/YCS - 2901018

Assembled shielded round cable for Yokogawa CS3000 CentumVP ADV561, ADV161 with 1 x IDC/FLK socket strip (50-position) on 1 x IDC/FLK socket strip (50-position), Cable length: 30 m

Cable - FLK-MIL50/EZ-DR/KS/3500/YCS - 2901019

Assembled shielded round cable for Yokogawa CS3000 CentumVP ADV561, ADV161 with 1 x IDC/FLK socket strip (50-position) on 1 x IDC/FLK socket strip (50-position), Cable length: 35 m

Cable - FLK-MIL50/EZ-DR/KS/4000/YCS - 2901020

Assembled shielded round cable for Yokogawa CS3000 CentumVP ADV561, ADV161 with 1 x IDC/FLK socket strip (50-position) on 1 x IDC/FLK socket strip (50-position), Cable length: 40 m

Cable - FLK-MIL50/EZ-DR/KS/8000/YCS - 2321868

Assembled shielded round cable for Yokogawa CS3000 CentumVP ADV561, ADV161 with 1 x IDC/FLK socket strip (50-position) on 1 x IDC/FLK socket strip (50-position), Cable length: 80 m