

## Bolt connection terminal block - RTO 3-PE - 3049615

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Ground terminal block with bolt connection, cross section 0.1 - 2.5 mm<sup>2</sup>, AWG: 26 - 14, width 12.3 mm, color: Green-yellow

### Product Features

- ✓ Green-yellow housing
- ✓ Another labeling option
- ✓ Low contact resistance
- ✓ Corrosion-free terminal points



### Key commercial data

|                                      |           |
|--------------------------------------|-----------|
| Packing unit                         | 1 1       |
| Minimum order quantity               | 50 1      |
| Weight per Piece (excluding packing) | 23.66 GRM |
| Custom tariff number                 | 85369010  |
| Country of origin                    | Germany   |

### Technical data

#### General

|                                         |                                                                                                 |
|-----------------------------------------|-------------------------------------------------------------------------------------------------|
| Note                                    | Note: the BE-RT... path extension is to be used for non-insulated cable lugs (see accessories). |
| Number of levels                        | 1                                                                                               |
| Number of connections                   | 2                                                                                               |
| Color                                   | green-yellow                                                                                    |
| Insulating material                     | PA                                                                                              |
| Inflammability class according to UL 94 | V0                                                                                              |
| Rated surge voltage                     | 8 kV                                                                                            |
| Pollution degree                        | 3                                                                                               |
| Surge voltage category                  | III                                                                                             |

# Bolt connection terminal block - RTO 3-PE - 3049615

## Technical data

### General

|                                                                       |                                                     |
|-----------------------------------------------------------------------|-----------------------------------------------------|
| Insulating material group                                             | I                                                   |
| Connection in acc. with standard                                      | IEC 60947-7-2                                       |
| Open side panel                                                       | ja                                                  |
| Test specification, oscillation, broadband noise                      | DIN EN 50155 (VDE 0115-200):2008-03                 |
| Test spectrum                                                         | Service life test category 1, class B, body mounted |
| Test frequency                                                        | $f_1 = 5 \text{ Hz}$ to $f_2 = 150 \text{ Hz}$      |
| ASD level                                                             | 0.02 g <sup>2</sup> /Hz                             |
| Acceleration                                                          | 0.8 g                                               |
| Test duration per axis                                                | 5 h                                                 |
| Test directions                                                       | X-, Y- and Z-axis                                   |
| Oscillation, broadband noise test result                              | Test passed                                         |
| Test specification, shock test                                        | DIN EN 50155 (VDE 0115-200):2008-03                 |
| Shock form                                                            | Half-sine                                           |
| Acceleration                                                          | 5 g                                                 |
| Shock duration                                                        | 30 ms                                               |
| Number of shocks per direction                                        | 3                                                   |
| Test directions                                                       | X-, Y- and Z-axis (pos. and neg.)                   |
| Shock test result                                                     | Test passed                                         |
| Temperature index, insulating material (DIN EN 60216-1 (VDE 0304-21)) | 120 °C                                              |

### Dimensions

|                  |         |
|------------------|---------|
| Width            | 12.3 mm |
| Length           | 66 mm   |
| Height NS 35/7,5 | 49.9 mm |
| Height NS 35/15  | 57.4 mm |

### Connection data

|                                             |                     |
|---------------------------------------------|---------------------|
| Note                                        | Connection bolts    |
| Conductor cross section solid min.          | 0.1 mm <sup>2</sup> |
| Conductor cross section solid max.          | 2.5 mm <sup>2</sup> |
| Conductor cross section AWG/kcmil min.      | 26                  |
| Conductor cross section AWG/kcmil max       | 14                  |
| Conductor cross section stranded min.       | 0.1 mm <sup>2</sup> |
| Conductor cross section stranded max.       | 2.5 mm <sup>2</sup> |
| Min. AWG conductor cross section, stranded  | 26                  |
| Max. AWG conductor cross section, stranded  | 14                  |
| Min. cross section for cable lug connection | 0.5 mm <sup>2</sup> |
| Max. cross section for cable lug connection | 2.5 mm <sup>2</sup> |

## Bolt connection terminal block - RTO 3-PE - 3049615

### Technical data

#### Connection data

|                        |                 |
|------------------------|-----------------|
| Connection method      | Bolt connection |
| Screw thread           | M3              |
| Tightening torque, min | 0.6 Nm          |
| Tightening torque max  | 0.8 Nm          |

### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27141120 |
| eCl@ss 4.1 | 27141120 |
| eCl@ss 5.0 | 27141120 |
| eCl@ss 5.1 | 27141120 |
| eCl@ss 6.0 | 27141120 |
| eCl@ss 7.0 | 27141120 |
| eCl@ss 8.0 | 27141120 |

#### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC000897 |
| ETIM 3.0 | EC000897 |
| ETIM 4.0 | EC000901 |
| ETIM 5.0 | EC000901 |

#### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 30211811 |
| UNSPSC 7.0901 | 39121410 |
| UNSPSC 11     | 39121410 |
| UNSPSC 12.01  | 39121410 |
| UNSPSC 13.2   | 39121410 |

### Approvals

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UL Recognized / VDE Zeichengenehmigung / cUL Recognized / ABS / IECCE CB Scheme / GOST / cULus Recognized

## Bolt connection terminal block - RTO 3-PE - 3049615

### Approvals

Ex Approvals

ATEX / IECEx

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Approvals submitted

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### Approval details

|                                                                                                 |
|-------------------------------------------------------------------------------------------------|
| UL Recognized  |
|-------------------------------------------------------------------------------------------------|

|                                                                                                          |          |
|----------------------------------------------------------------------------------------------------------|----------|
| VDE Zeichengenehmigung  |          |
|                                                                                                          |          |
| mm²/AWG/kcmil                                                                                            | 0.14-2.5 |

|                                                                                                    |
|----------------------------------------------------------------------------------------------------|
| cUL Recognized  |
|----------------------------------------------------------------------------------------------------|

|     |
|-----|
| ABS |
|-----|

|                                                                                                     |
|-----------------------------------------------------------------------------------------------------|
| IECEE CB Scheme  |
|-----------------------------------------------------------------------------------------------------|

|                                                                                          |
|------------------------------------------------------------------------------------------|
| GOST  |
|------------------------------------------------------------------------------------------|

|                                                                                                      |
|------------------------------------------------------------------------------------------------------|
| cULus Recognized  |
|------------------------------------------------------------------------------------------------------|

### Accessories

Accessories

## Bolt connection terminal block - RTO 3-PE - 3049615

### Accessories

#### Bridge

Plug-in bridge - FBS 2-6 - 3030336



Plug-in bridge, Number of positions: 2, Color: red

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Plug-in bridge - FBS 3-6 - 3030242



Plug-in bridge, Number of positions: 3, Color: red

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Plug-in bridge - FBS 4-6 - 3030255



Plug-in bridge, Number of positions: 4, Color: red

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Plug-in bridge - FBS 5-6 - 3030349



Plug-in bridge, Number of positions: 5, Color: red

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Plug-in bridge - FBS 10-6 - 3030271



Plug-in bridge, Number of positions: 10, Color: red

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## Bolt connection terminal block - RTO 3-PE - 3049615

### Accessories

Plug-in bridge - FBS 20-6 - 3030365



Plug-in bridge, Number of positions: 20, Color: red

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Plug-in bridge - FBS 50-6 - 3032224



Plug-in bridge, Number of positions: 50, Color: red

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### End block

End clamp - CLIPFIX 35 - 3022218



Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, width: 9.5 mm, color: gray

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End clamp - CLIPFIX 35-5 - 3022276



Quick mounting end clamp for NS 35/7,5 DIN rail or NS 35/15 DIN rail, with marking option, with parking option for FBS...5, FBS...6, KSS 5, KSS 6, width: 5.15 mm, color: gray

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End clamp - E/NS 35 N - 0800886



End clamp, width: 9.5 mm, color: gray

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## Bolt connection terminal block - RTO 3-PE - 3049615

### Accessories

End clamp - E/UK - 1201442



End clamp, for assembly on NS 32 or NS 35/7.5 DIN rail

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End clamp - E/UK 1 - 1201413



End clamps, for supporting the ends of double-level and three-level terminal blocks, width: 10 mm, color: gray

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End cover

End cover - D-RT 3/5 - 3049097



End cover, Length: 65 mm, Width: 2.2 mm, Height: 50.4 mm, Color: gray

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Path extension - BE-RT 3/5 - 3049819



Path extension, Color: gray

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Spacer plate - DP PS-6 - 3036738



Spacer plate, Color: red

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## Bolt connection terminal block - RTO 3-PE - 3049615

### Accessories

#### Insulating sleeve

Insulating sleeve - MPS-IH WH - 0201663



Insulating sleeve, Color: white

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Insulating sleeve - MPS-IH RD - 0201676



Insulating sleeve, Color: red

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Insulating sleeve - MPS-IH BU - 0201689



Insulating sleeve, Color: blue

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Insulating sleeve - MPS-IH YE - 0201692



Insulating sleeve, Color: yellow

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Insulating sleeve - MPS-IH GN - 0201702



Insulating sleeve, Color: green

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## Bolt connection terminal block - RTO 3-PE - 3049615

### Accessories

Insulating sleeve - MPS-IH GY - 0201728



Insulating sleeve, Color: gray

Insulating sleeve - MPS-IH BK - 0201731



Insulating sleeve, Color: black

### Labeled terminal marker

Zack marker strip - ZB 8 CUS - 0825011



Zack marker strip, Can be ordered: Strip, white, Labeled according to customer specifications, Mounting type: Snap into tall marker groove, For terminal block width: 8.2 mm, Lettering field: 10.5 x 8.15 mm

Marker for terminal blocks - UC-TM 8 CUS - 0824597



Marker for terminal blocks, Can be ordered: By sheet, white, Labeled according to customer specifications, Mounting type: Snap into tall marker groove, For terminal block width: 8.2 mm, Lettering field: 7.6 x 10.5 mm

Marker for terminal blocks - UCT-TM 8 CUS - 0829616



Marker for terminal blocks, Can be ordered: By sheet, white, Labeled according to customer specifications, Mounting type: Snap into tall marker groove, For terminal block width: 8.2 mm, Lettering field: 7.6 x 10.5 mm

## Bolt connection terminal block - RTO 3-PE - 3049615

### Accessories

#### Zack marker strip - ZB 12 CUS - 0824942



Zack marker strip, Can be ordered: Strip, white, Labeled according to customer specifications, Mounting type: Snap into tall marker groove, For terminal block width: 12.2 mm, Lettering field: 10.5 x 12.15 mm

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#### Marker for terminal blocks - UC-TM 12 CUS - 0824613



Marker for terminal blocks, Can be ordered: By sheet, white, Labeled according to customer specifications, Mounting type: Snap into tall marker groove, For terminal block width: 12 mm, Lettering field: 11.45 x 10.5 mm

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#### Marker for terminal blocks - UCT-TM 12 CUS - 0829630



Marker for terminal blocks, Can be ordered: By sheet, white, Labeled according to customer specifications, Mounting type: Snap into tall marker groove, For terminal block width: 12 mm, Lettering field: 10.8 x 9.6 mm

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### Mounting rail

#### DIN rail perforated - NS 35/ 7,5 PERF 2000MM - 0801733



DIN rail, material: steel galvanized and passivated with a thick layer, perforated, height 7.5 mm, width 35 mm, length: 2000 mm

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#### DIN rail - NS 35/ 7,5 UNPERF 2000MM - 0801681



DIN rail, material: Steel, unperforated, height 7.5 mm, width 35 mm, length: 2 m

## Bolt connection terminal block - RTO 3-PE - 3049615

### Accessories

DIN rail - NS 35/ 7,5 WH PERF 2000MM - 1204119



DIN rail 35 mm (NS 35)

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DIN rail - NS 35/ 7,5 WH UNPERF 2000MM - 1204122



DIN rail 35 mm (NS 35)

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DIN rail, unperforated - NS 35/ 7,5 AL UNPERF 2000MM - 0801704



DIN rail, unperforated, Width: 35 mm, Height: 7.5 mm, Length: 2000 mm, Color: silver

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DIN rail - NS 35/ 7,5 ZN PERF 2000MM - 1206421



DIN rail, material: Galvanized, perforated, height 7.5 mm, width 35 mm, length: 2 m

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DIN rail - NS 35/ 7,5 ZN UNPERF 2000MM - 1206434



DIN rail, material: Galvanized, unperforated, height 7.5 mm, width 35 mm, length: 2 m

## Bolt connection terminal block - RTO 3-PE - 3049615

### Accessories

DIN rail - NS 35/ 7,5 CU UNPERF 2000MM - 0801762



DIN rail, material: Copper, unperforated, height 7.5 mm, width 35 mm, length: 2 m

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End cap - NS 35/ 7,5 CAP - 1206560



DIN rail end piece, for DIN rail NS 35/7.5

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DIN rail perforated - NS 35/15 PERF 2000MM - 1201730



DIN rail, material: steel galvanized and passivated with a thick layer, perforated, height 15 mm, width 35 mm, length: 2000 mm

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DIN rail - NS 35/15 UNPERF 2000MM - 1201714



DIN rail, material: Steel, unperforated, height 15 mm, width 35 mm, length: 2 m

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DIN rail - NS 35/15 WH PERF 2000MM - 0806602



DIN rail 35 mm (NS 35)

## Bolt connection terminal block - RTO 3-PE - 3049615

### Accessories

DIN rail - NS 35/15 WH UNPERF 2000MM - 1204135



DIN rail 35 mm (NS 35)

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DIN rail, unperforated - NS 35/15 AL UNPERF 2000MM - 1201756



DIN rail, deep drawn, high profile, unperforated, 1.5 mm thick, material: aluminum, height 15 mm, width 35 mm, length 2000 mm

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DIN rail - NS 35/15 ZN PERF 2000MM - 1206599



DIN rail, material: Galvanized, perforated, height 15 mm, width 35 mm, length: 2 m

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DIN rail - NS 35/15 ZN UNPERF 2000MM - 1206586



DIN rail, material: Galvanized, unperforated, height 15 mm, width 35 mm, length: 2 m

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DIN rail - NS 35/15 CU UNPERF 2000MM - 1201895



DIN rail, material: Copper, unperforated, 1.5 mm thick, height 15 mm, width 35 mm, length: 2 m

## Bolt connection terminal block - RTO 3-PE - 3049615

### Accessories

End cap - NS 35/15 CAP - 1206573



DIN rail end piece, for DIN rail NS 35/15

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DIN rail - NS 35/15-2,3 UNPERF 2000MM - 1201798



DIN rail, material: Steel, unperforated, 2.3 mm thick, height 15 mm, width 35 mm, length: 2 m

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### Partition plate

Separating plate - TPNS-UK - 0706647



Separating plate, Length: 80 mm, Width: 2 mm, Height: 70 mm, Color: gray

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### Screwdriver tools

Screwdriver - SZS 0,6X3,5 - 1205053



Actuation tool, for ST terminal blocks, insulated, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

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### Terminal marking

## Bolt connection terminal block - RTO 3-PE - 3049615

### Accessories

#### Zack marker strip - ZB 8:UNBEDRUCKT - 1052002



Zack marker strip, Strip, white, Unlabeled, Can be labeled with: Plotter, Mounting type: Snap into tall marker groove, For terminal block width: 8.2 mm, Lettering field: 10.5 x 8.15 mm

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#### Marker for terminal blocks - UC-TM 8 - 0818072



Marker for terminal blocks, Sheet, white, Unlabeled, Can be labeled with: BLUEMARK CLED, BLUEMARK LED, Plotter, Mounting type: Snap into tall marker groove, For terminal block width: 8.2 mm, Lettering field: 7.6 x 10.5 mm

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#### Marker for terminal blocks - UCT-TM 8 - 0828740



Marker for terminal blocks, Sheet, white, Unlabeled, Can be labeled with: THERMOMARK CARD PLUS, THERMOMARK CARD, BLUEMARK CLED, BLUEMARK LED, Mounting type: Snap into tall marker groove, For terminal block width: 8.2 mm, Lettering field: 7.6 x 10.5 mm

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#### Zack marker strip - ZB 12:UNPRINTED - 0812120



Zack marker strip, Strip, white, Unlabeled, Can be labeled with: Plotter, Mounting type: Snap into tall marker groove, For terminal block width: 12.2 mm, Lettering field: 12 x 10.5 mm

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#### Marker for terminal blocks - UC-TM 12 - 0819194



Marker for terminal blocks, Sheet, white, Unlabeled, Can be labeled with: BLUEMARK CLED, BLUEMARK LED, Plotter, Mounting type: Snap into tall marker groove, For terminal block width: 12 mm, Lettering field: 11.45 x 10.5 mm

## Bolt connection terminal block - RTO 3-PE - 3049615

### Accessories

Marker for terminal blocks - UCT-TM 12 - 0829144



Marker for terminal blocks, Sheet, white, Unlabeled, Can be labeled with: THERMOMARK CARD PLUS, THERMOMARK CARD, BLUEMARK CLED, BLUEMARK LED, Mounting type: Snap into tall marker groove, For terminal block width: 12 mm, Lettering field: 10.8 x 9.6 mm

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### Test plug terminal block

Test plugs - MPS-MT - 0201744



Test plugs, Color: silver

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Test adapter - PAI-4-N GY - 3032871



Test adapter, Color: gray

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Test adapter - PS-6 - 3030996



Test adapter, Color: red

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Test plugs - PS-6/2,3MM RD - 3038736

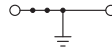


Test plugs, Color: red

## Bolt connection terminal block - RTO 3-PE - 3049615

### Drawings

Circuit diagram



Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «JONHON», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «FORSTAR».



## JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели,  
кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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