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|---------------------------|---|---|
| 29500774 | DATA SHEET |  |
| Valid from: 26.05.2021 | HITRONIC® SBX (A*) (C*) PG150 (F*) | |

Description

- LWL-DIN Splice cassettes with ready-made pigtails
- Available with various couplings (SC-D, LC-D, ST-D, SC-RJ) and with pigtails (OM1, OM2, OM3, OM4, OS2) pre-assembled in splice cassettes
- Space-saving design for DIN rail TH35
- Designed for industrial environment (protection class IP20)



General characteristics

Interfaces

Housing front:

Mounted couplings (ST-D, SC-D, SC-RJ or LC-D)

Housing side and rear:

Cable gland M20x1.5

(1x included, max. 3x possible)

Pigtail length

1500 mm

Cable gland, clamping range

Ø6 to Ø13 mm

Temperature range

environment temp.: -5°C to +55°C (+23°F to +131°F)

Degree of protection

IP 20

Variation

| Article | Description | Adapters Number (A*) | Pigtails Amount | Coupling color (C*) | Fibertype (F*) |
|----------|---|-------------------------|--------------------|------------------------|-------------------|
| 29500774 | HITRONIC SBX 6xST-D MT PG150 G62.5 OM1 | 6xST-D | 12 | metal | G62.5 OM1 |
| 29500775 | HITRONIC SBX 6xST-D MT PG150 G50 OM2 | 6xST-D | 12 | metal | G50 OM2 |
| 29500776 | HITRONIC SBX 6xST-D MT PG150 G50 OM3 | 6xST-D | 12 | metal | G50 OM3 |
| 29500777 | HITRONIC SBX 6xST-D MT PG150 G50 OM4 | 6xST-D | 12 | metal | G50 OM4 |
| 29500778 | HITRONIC SBX 6xST-D MT PG150 E9 OS2 | 6xST-D | 12 | metal | E9 OS2 |
| 29500779 | HITRONIC SBX 6xSC-D BG PG150 G62.5 OM1 | 6xSC-D | 12 | beige | G62.5 OM1 |
| 29500780 | HITRONIC SBX 6xSC-D BG PG150 G50 OM2 | 6xSC-D | 12 | beige | G50 OM2 |
| 29500781 | HITRONIC SBX 6xSC-D TQ PG150 G50 OM3 | 6xSC-D | 12 | turquoise | G50 OM3 |
| 29500782 | HITRONIC SBX 6xSC-D VT PG150 G50 OM4 | 6xSC-D | 12 | heatherviolet | G50 OM4 |
| 29500783 | HITRONIC SBX 6xSC-D BL PG150 E9 OS2 | 6xSC-D | 12 | blue | E9 OS2 |
| 29500784 | HITRONIC SBX 6xSC-D MT PG150 E9 OS2 | 6xSC-D | 12 | metal | E9 OS2 |
| 29500785 | HITRONIC SBX 6XSC-RJ BG PG150 G62.5 OM1 | 6xSC-RJ | 12 | beige | G62.5 OM1 |
| 29500786 | HITRONIC SBX 6XSC-RJ BG PG150 G50 OM2 | 6xSC-RJ | 12 | beige | G50 OM2 |
| 29500787 | HITRONIC SBX 6XSC-RJ BG PG150 G50 OM3 | 6xSC-RJ | 12 | beige | G50 OM3 |
| 29500788 | HITRONIC SBX 6XSC-RJ BG PG150 G50 OM4 | 6xSC-RJ | 12 | beige | G50 OM4 |
| 29500789 | HITRONIC SBX 6XSC-RJ BL PG150 E9 OS2 | 6xSC-RJ | 12 | Blue | E9 OS2 |
| 29500790 | HITRONIC SBX 12xST-D MT PG150 G50 OM2 | 12xST-D | 24 | metal | G50 OM2 |
| 29500791 | HITRONIC SBX 12xST-D MT PG150 G50 OM3 | 12xST-D | 24 | metal | G50 OM3 |
| 29500792 | HITRONIC SBX 12xST-D MT PG150 G50 OM4 | 12xST-D | 24 | metal | G50 OM4 |
| 29500793 | HITRONIC SBX 12xST-D MT PG150 E9 OS2 | 12xST-D | 24 | metal | E9 OS2 |
| 29500794 | HITRONIC SBX 12xSC-D BG PG150 G50 OM2 | 12xSC-D | 24 | beige | G50 OM2 |
| 29500795 | HITRONIC SBX 12xSC-D TQ PG150 G50 OM3 | 12xSC-D | 24 | turquoise | G50 OM3 |
| 29500796 | HITRONIC SBX 12xSC-D VT PG150 G50 OM4 | 12xSC-D | 24 | heather | G50 OM4 |


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|----------|--|---------|----|---------------|-----------|
| | | | | violet | |
| 29500797 | HITRONIC SBX 12xSC-D BL PG150 E9 OS2 | 12xSC-D | 24 | blue | E9 OS2 |
| 29500798 | HITRONIC SBX 6xLC-D BG PG150 G62.5 OM1 | 6xLC-D | 12 | beige | G62.5 OM1 |
| 29500799 | HITRONIC SBX 6xLC-D BG PG150 G50 OM2 | 6xLC-D | 12 | beige | G50 OM2 |
| 29500800 | HITRONIC SBX 6xLC-D TQ PG150 G50 OM3 | 6xLC-D | 12 | turquoise | G50 OM3 |
| 29500801 | HITRONIC SBX 6xLC-D VT PG150 G50 OM4 | 6xLC-D | 12 | heatherviolet | G50 OM4 |
| 29500802 | HITRONIC SBX 6xLC-D BL PG150 E9 OS2 | 6xLC-D | 12 | blue | E9 OS2 |
| 29500803 | HITRONIC SBX 12xLC-D BG PG150 G50 OM2 | 12xLC-D | 24 | beige | G50 OM2 |
| 29500804 | HITRONIC SBX 12xLC-D TQ PG150 G50 OM3 | 12xLC-D | 24 | turquoise | G50 OM3 |
| 29500805 | HITRONIC SBX 12xLC-D VT PG150 G50 OM4 | 12xLC-D | 24 | heatherviolet | G50 OM4 |
| 29500806 | HITRONIC SBX 12xLC-D BL PG150 E9 OS2 | 12xLC-D | 24 | blue | E9 OS2 |

Optical properties

| Type | SC & SC-RJ | LC | ST |
|---------------------------|--|-------------|-------------|
| Insertion loss (coupling) | max. 0,2 dB | max. 0,4 dB | max. 0,2 dB |
| Insertion loss (pigtail) | max. 0,3 dB (Multimode) / max. 0,4 dB (Singlemode) | | |
| Return loss (pigtail) | min. 30 dB (Multimode) / min. 40 dB (Singlemode) | | |

Mechanical properties

Housing

| | |
|--|---|
| Dimension (WxLxD) | 35 or 70 mm x 125 mm x 140 mm |
| Color | RAL 7035 |
| Number of splice cassettes | 1 piece (with housing height 35mm) 2 pieces (with housing height 70mm) |
| Mounting | DIN rail (TH35) |
| Housing (incl. covering & front plate), material | stainless steel, powder-coated |
| Mounting rail adapter, material | spring steel, nickel-plated |
| Blind plug, material | Plastic |
| Cable gland, material | PA |
| Strain relief clamp, material | Stahlblech, verzinkt |
| Splice cassette (incl. covering), material | Plastic |


Couplings

| | SC & SC-RJ | LC | ST |
|----------------------|------------------------|-----------------|----------------------------|
| Housing, material | plastic (PBT) or metal | Kunststoff | Metall |
| Dust cover, material | Plastic (PP) | Kunststoff (PP) | Kunststoff |
| Slotted sleeve | ceramic | ceramic | ceramic or phosphor bronze |
| Mechanical life span | ≥ 500 | ≥ 500 | ≥ 1000 |

Pigtails

| | SC | LC | ST |
|----------------------|------------------|------------------|------------------|
| Ferule, material | zirconia-ceramic | zirconia-ceramic | zirconia-ceramic |
| Housing | Plastic | Plastic | Metal |
| anti-kink grommet | TPE | TPE | TPE |
| Dust cover | TPE | PP | TPE |
| Mechanical life span | ≥ 1000 | ≥ 1000 | ≥ 1000 |

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Standards

| | |
|--|-----------------------------|
| Product standard, LWL-connector type SC | IEC 61754-4 |
| Product standard, LWL- connector type LC | IEC 61754-20 |
| Product standard, LWL- connector type ST | IEC 61754-2 |
| Product standard, LWL- connector type SC-RJ | IEC 61754-24 |
| LWL: Framework specification for category A1 multimode fibres | IEC 60793-2-10 (OM1 to OM4) |
| LWL: Framework specification for category B singlemode fibres | IEC 60793-2-50 (OS2) |
| LWL-cable: Basic technical specification - General information - Marking, transport and storage | VDE 0888 |
| Information technology - application-neutral communication cable systems | EN 50173-3 |
| Part 3: Industrial areas | |
| Dimensions of low-voltage switchgear and controlgear | DIN 60715 |
| Standardized mounting rails for the mechanical fastening of electrical devices in switchgear systems | |

Application range

Automation, industrial machinery and plant engineering

Note

Photographs are not to scale and do not represent detailed images of the respective products.

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