**Verbindungstechnik – LWL**
***[Network Connectivity - FO]***

# LWL-Verteilerfeld – Festeinbau – OM3
# *[FO patch panel – fixed installation – OM3]*

Die vorkonfektionierten TKM LWL-Verteilerfelder sind direkt geeignet für die Verwendung in Glasfasernetzen. Sie sind verwendbar als spleißfertiges Verteilerfeld mit eingelegtem Spleißequipment (PPRS – Patch Panel ready to Splice). Die Verteilerfelder sind designed mit den folgenden Funktionen:

- Spleißequipment (SE) und Spließprotektor (SP) – Heat Shrink (HS) // Crimp (CR)
- Qualitätsstufen SE: Höchster Standard (HS), Grade B (GB), Grade C (GC)
- Kapazität Fasermanagement: max. 96 Fasern / HE

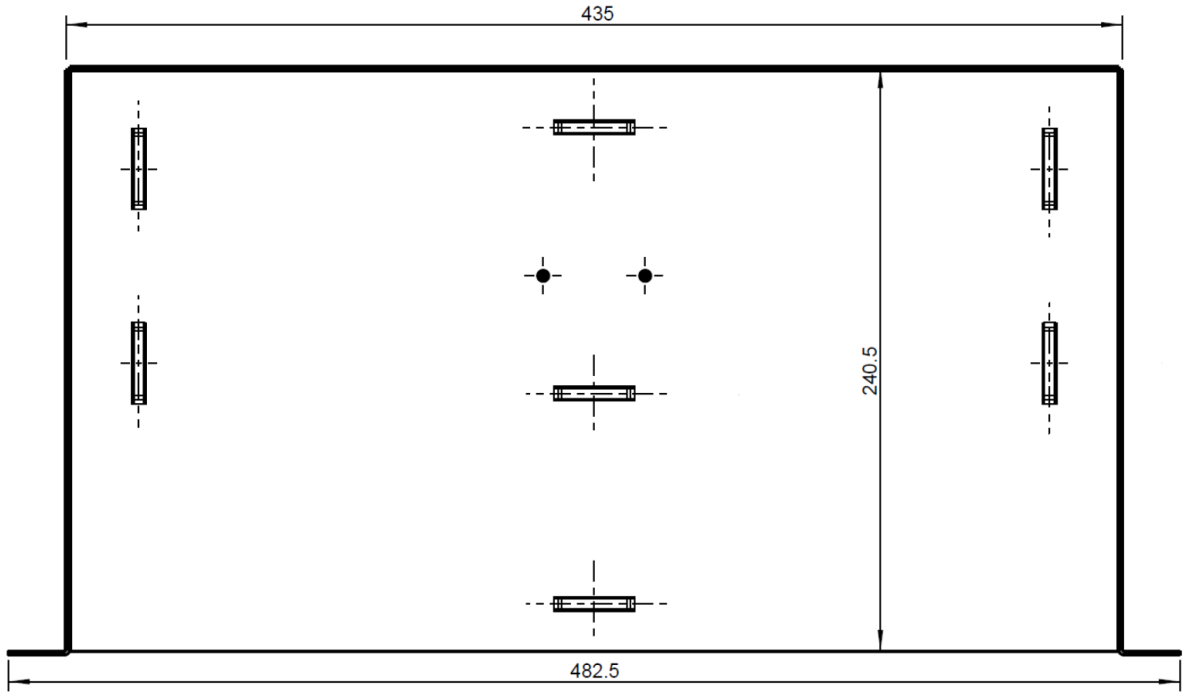
*[The pre-assembled TKM FO patch panels are direct applicable to use in FO networks. They are usable as patch panel ready to splice with already implemented splice equipment (PPRS – patch panel ready to splice). The FO patch panels are designed with the following features:*

- splice equipment (SE) and splice protector (SP) - heat shrink (SH) // crimp (CR)
- *quality grades SE: high standard (HS), grade B (GB), grade C (GC)*
- *capacity fibre management: max. 96 fibres / U]*

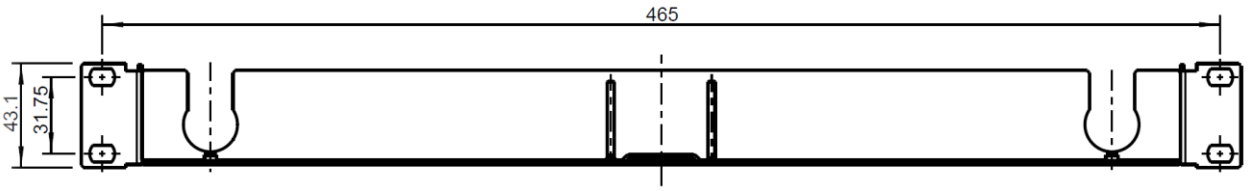
* Produktfoto exemplarisch
*[product picture exemplary]*

## Technische Daten – 24- Port LWL-Verteilerfeld
## *[technical data – 24- port FO patch panel]*

| **Gehäusekörper** *[panel body]* | | | |
|---|---|---|---|
| **Mechanische Eigenschaften - Unterteil** ***[mechanical characteristics – bottom part]*** | | | |
| Material *[material]* | sendzimirverzinktes Stahlblech *[sendzimised sheet steel]* | | |
| Farbe *[colour]* | Silber – metal natur *[silver – natural metal]* | | |
| Abmaße BxTxH *[dimensions WxDxH]* | siehe Skizze *[see drawing]* | | |
| Gewicht *[weight]* | ca. 1650g | | |
| **Mechanische Eigenschaften – Deckel** ***[mechanical characteristics – top cover]*** | | | |
| Material *[material]* | sendzimirverzinktes Stahlblech *[sendzimised sheet steel]* | | |
| Farbe *[colour]* | Silber – metal natur *[silver – natural metal]* | | |
| Abmaße BxTxH *[dimensions WxDxH]* | siehe Skizze *[see drawing]* | | |
| Schublade Deckel *[weight top cover]* | ca. 850g | **Gesamtgewicht inkl. 4x Spleißequipment** ***[total weight incl. 4x splice equipment]*** | Ca. 3700g (3400g + 4x 75g) |




Unterteil
*[bottom part]*




Rückseite
*[rear side]*

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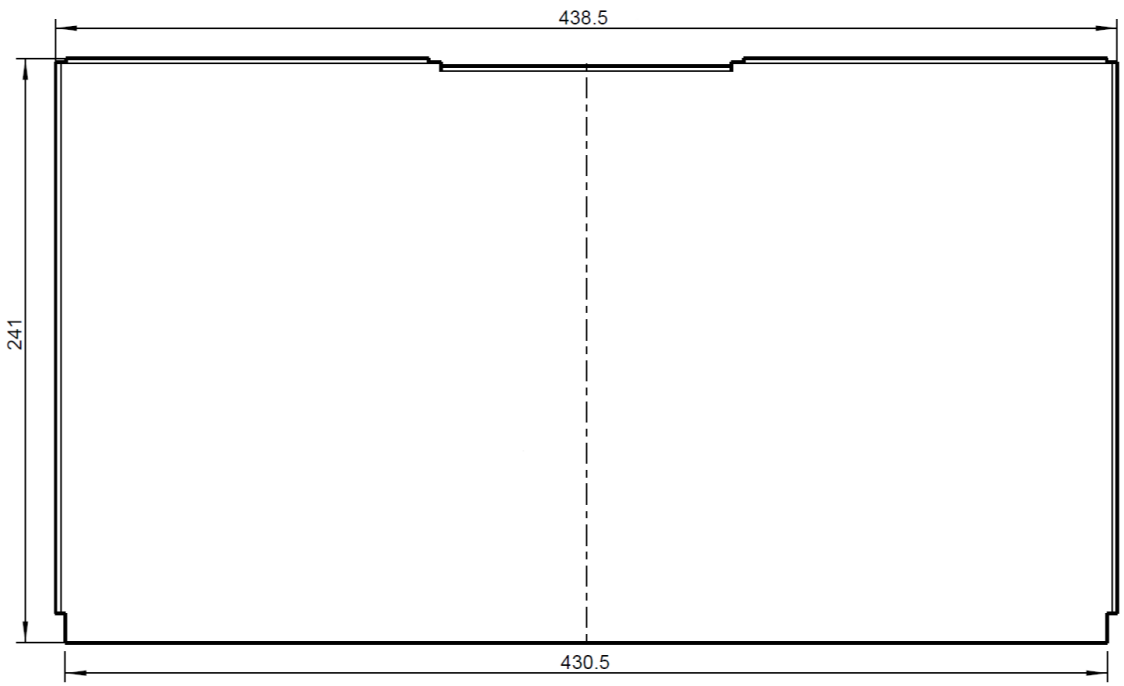
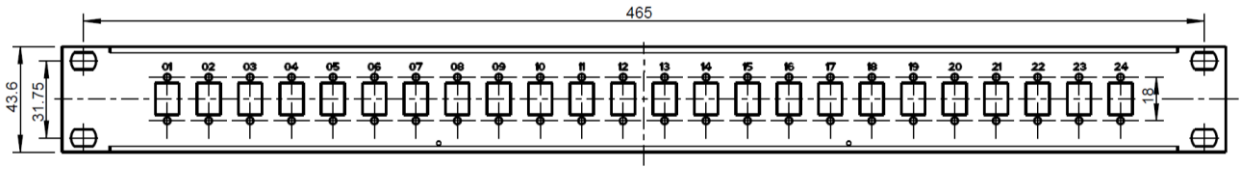



Deckel
*[top cover]*

| **Frontplatte LCdx/SCsx Footprint:**<br>***[front plate LCdx/SCsx footprint:]*** | |
|---|---|
| **Material**<br>***[material]*** | pulverbeschichteter Stahl<br>*[powder coated steel]* |
| **Farbe**<br>***[colour]*** | grau – ähnlich RAL7035<br>*[grey – similar to RAL7035]* |
| **Abmaße BxTxH**<br>***[dimensions WxDxH]*** | siehe Skizze<br>*[see drawing]* |
| **Gewicht**<br>***[weight]*** | ca. 340g |
| **Kapazität**<br>***[capacity]*** | bis zu 24x LCdx/SCsx<br>*[up to 24x LCdx/SCsx]* |
| **Portbedruckung**<br>***[port labelling]*** | 1 – 24 |
| Position Portbedruckung<br>*[position of port labelling]* | Mitte des Ports<br>*[middle of port]* |



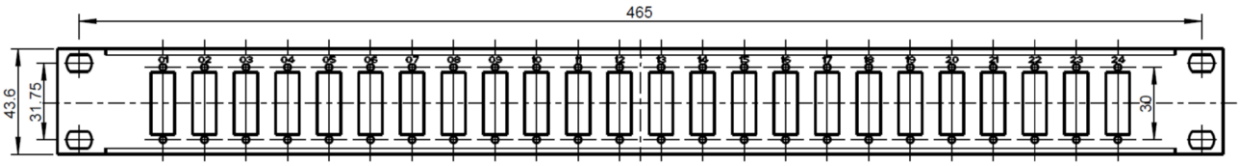

Frontplatte
*[front plate]*

| **LWL Kupplung:**<br>***[FO adapter:]*** | |
|---|---|
| Version<br>*[version]* | LC DX // SC SX |
| Material Gehäuse<br>*[material body]* | Polycarbonat UL 94V0<br>*[polycarbonate UL 94V0]* |
| Farbe Gehäuse<br>*[colour body]* | Aqua– ähnlich RAL6027<br>*[aqua – similar to RAL 6027]* |
| Ferrulentyp<br>*[type of sleeve]* | Keramik<br>*[ceramic]* |
| Staubschutz<br>*[dust protection]* | Inkl. Staubschutzkappe<br>*[incl. dust cap]* |

k.A.
*[n.a.]*

*exemplarische Abbildung
*[exemplary picture]*

| **Frontplatte SCdx/LCquad Footprint:**<br>***[front plate SCdx/LCquad footprint:]*** | |
|---|---|
| **Material**<br>***[material]*** | pulverbeschichteter Stahl<br>*[powder coated steel]* |
| **Farbe**<br>***[colour]*** | grau – ähnlich RAL7035<br>*[grey – similar to RAL7035]* |
| **Abmaße BxTxH**<br>***[dimensions WxDxH]*** | siehe Skizze<br>*[see drawing]* |
| **Gewicht**<br>***[weight]*** | ca. 300g |
| **Kapazität**<br>***[capacity]*** | bis zu 24x SCdx/LCquad Kupplungen<br>*[up to 24x SCdx/LCquad adapters]* |
| **Portbedruckung**<br>***[port printing]*** | 1 – 24 |
| Position Portbedruckung<br>*[position of port printing]* | Mitte des Ports<br>*[middle of port]* |



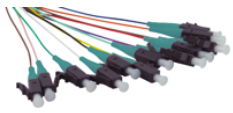

Frontplatte
*[front plate]*

| **LWL Kupplung:**<br>***[FO adapter:]*** | |
|---|---|
| Version<br>*[version]* | SC DX // LC QUAD |
| Material Gehäuse<br>*[material body]* | Polycarbonat UL 94V0<br>*[polycarbonate UL 94V0]* |
| Farbe Gehäuse<br>*[colour body]* | Aqua– ähnlich RAL6027<br>*[aqua – similar to RAL 6027]* |
| Ferrulentyp<br>*[type of sleeve]* | Keramik<br>*[ceramic]* |
| Staubschutz<br>*[dust protection]* | Inkl. Staubschutzkappe<br>*[incl. dust cap]* |

k.A.
*[n.a.]*

*exemplarische Abbildung
*[exemplary picture]*

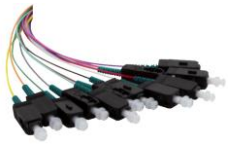
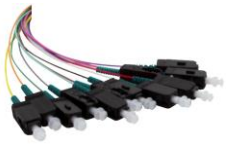
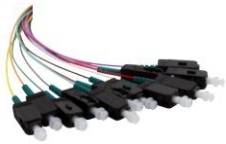
## Optional: SE – Spleiß Equipment
## *[optional: SE – splice equipment]*

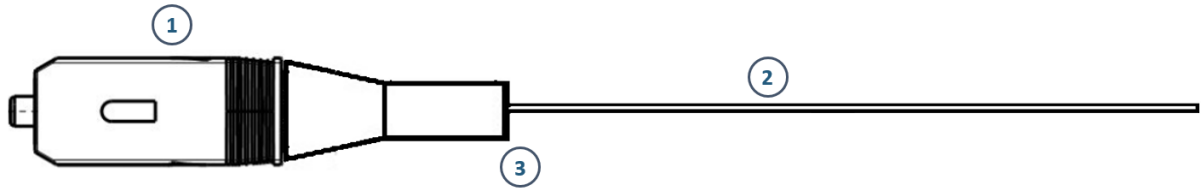
| **Pigtailset LC:** *[pigtailset LC:]* | | | |
|---|---|---|---|
| **Steckertyp** *[types of connector]* | LC/PC | | |
| Qualitätsstufe *[quality type]* | HS – High Standard | GB – Grade B | GC – Grade C |
| Hersteller / Marke des Steckers *[manufacturer / brand of connector]* | Huber & Suhner *[Huber & Suhner]* | Kein Markenstecker – Grade B *[no brand connector – grade B]* | Kein Markenstecker – Grade C *[no brand connector – grade C]* |
| Farbe Stecker *[colour connector]* | Schwarz *[black]* | Aqua *[aqua]* | Aqua *[aqua]* |
| Farbe Knickschutz *[colour boot]* | Aqua *[aqua]* | Weiß *[white]* | Weiß *[white]* |
| IL@97% [db]: // RL [db]:<br>IL (typical) [db]: // RL (typical) [db]:<br>**IEC 61300-3-34 / IEC 61300-3-6** | ≤ 0,25 ≥ 35<br>≤ 0,12 ≥ 45<br>**GRADE B/3** | ≤ 0,25 ≥ 35<br>≤ 0,20 ≥ 45<br>**GRADE B/3** | ≤ 0,50 ≥ 35<br>≤ 0,25 ≥ 40<br>**GRADE C/3** |
| |  | | |
| | *exemplarische Abbildung , Produkt kann farblich abweichen *[exemplary picture, product may vary in colour]* | | |
| **Faser** *[fibre]* | 1xG50/125 OM3 G.651 | | |
| **Faserdurchmesser** *[fibre diameter]* | 0,9mm | | |
| **Material Coating** *[material of coating]* | LSZH | | |
| **Farbkodierung Pigtailset** *[colour code of pigtailset]* | gemäß IEC 60304 *[acc. to IEC 60304]* | | |
| **Länge Pigtails gesamt** *[length of pigtails absolute]* | 2,50m | | |
| **Freie Länge Pigtails ausserhalb Kassette** *[free length of pigtails outside cassette]* | 1,50m | | |

*exemplarisch LC Stecker *[exemplarily LC connector]*

| | | | |
|---|---|---|---|
| 1 | Steckerkörper *[connector body]* | 2 | Faser *[fibre]* |
| 3 | Staubschutzkappe *[dust cap]* | 4 | Knickschutz *[boot]* |

## Optional: SE – Spleiß Equipment
## *[optional: SE – splice equipment]*

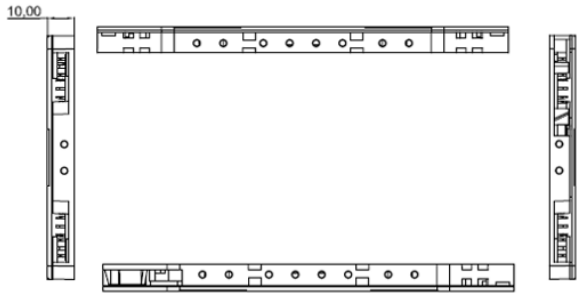
| **Pigtailset SC:**<br>***[pigtailset SC:]*** | | | |
|---|---|---|---|
| **Steckertyp**<br>***[types of connector]*** | SC/PC | | |
| Qualitätsstufe<br>*[quality type]* | HS – High Standard | GB – Grade B | GC – Grade C |
| Hersteller / Marke des Steckers<br>*[manufacturer / brand of connector]* | Huber & Suhner<br>*[Huber & Suhner]* | Kein Markenstecker – Grade B<br>*[no brand connector – grade B]* | Kein Markenstecker – Grade C<br>*[no brand connector – grade C]* |
| Farbe Stecker<br>*[colour connector]* | beige<br>*[beige]* | aqua<br>*[aqua]* | aqua<br>*[aqua]* |
| Farbe Knickschutz<br>*[colour boot]* | aqua<br>*[aqua]* | aqua<br>*[aqua]* | aqua<br>*[aqua]* |
| IL@97% [db]: // RL [db]:<br>IL (typical) [db]: // RL (typical) [db]:<br>**IEC 61300-3-34 / IEC 61300-3-6** | ≤ 0,25 ≥ 35<br>≤ 0,12 ≥ 45<br>**GRADE B/3** | ≤ 0,25 ≥ 35<br>≤ 0,20 ≥ 45<br>**GRADE B/3** | ≤ 0,50 ≥ 35<br>≤ 0,25 ≥ 40<br>**GRADE C/3** |
| |  |  |  |
| | *exemplarische Abbildung , Produkt kann farblich abweichen<br>*[exemplary picture, product may vary in colour]* | | |
| **Faser**<br>***[fibre]*** | 1xG50/125 OM3 G.651 | | |
| **Faserdurchmesser**<br>***[fibre diameter]*** | 0,9mm | | |
| **Material Coating**<br>***[material of coating]*** | LSZH | | |
| **Farbkodierung Pigtailset**<br>***[colour code of pigtailset]*** | gemäß IEC 60304<br>*[acc. to IEC 60304]* | | |
| **Länge Pigtails gesamt**<br>***[length of pigtails absolute]*** | 2,50m | | |
| **Freie Länge Pigtails ausserhalb Kassette**<br>***[free length of pigtails outside cassette]*** | 1,50m | | |

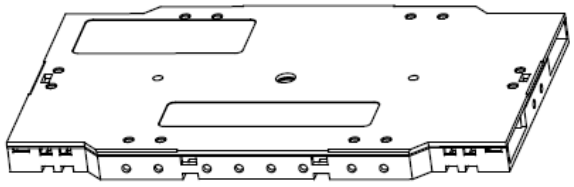


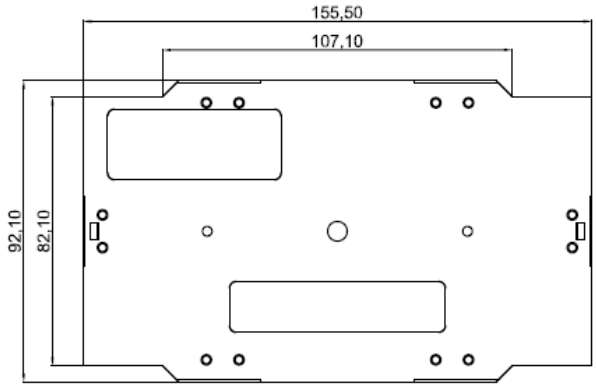

*exemplarisch SC Stecker
*[exemplarily SC connector]*

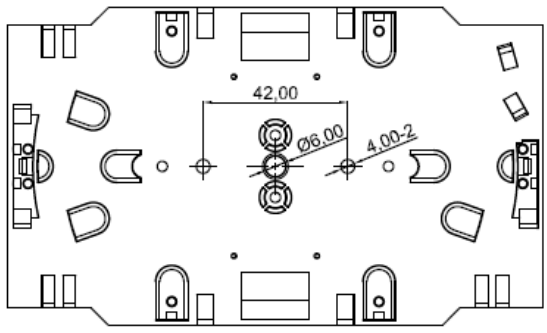
| | | | |
|---|---|---|---|
| 1 | Steckerkörper<br>*[connector body]* | 2 | Faser<br>*[fibre]* |
| 3 | Knickschutz<br>*[boot]* | 4 | n.a.<br>*[n.a.]* |

| **Spleißkassette:**<br>***[splice cassette:]*** | |
|---|---|
| **Spleißkassette**<br>***[splice cassette]*** | |
| Material<br>*[material]* | Acrylnitril-Butadien-Styrol-Copolymere (ABS) |
| Aufnahmekapazität<br>*[capacity]* | je Spleißkassette bis zu 24 Fasern<br>*[each splice cassette up to 24 fibres]* |
| Gewicht<br>*[weight]* | 30g |
| **Spleißkassettendeckel**<br>***[splice cassette top cover]*** | |
| Material<br>*[material]* | Acrylnitril-Butadien-Styrol-Copolymere (ABS) |
| Beschriftung<br>*[labelling]* | mit Laser-Hinweisschild und Farbcode versehen<br>*[signed with laser indicating label and colour code]* |
| Gewicht<br>*[weight]* | 20g |
| **Spleißhalter**<br>***[splice holder]*** | |
| Material<br>*[material]* | Acrylnitril-Butadien-Styrol-Copolymere (ABS) |
| Kapazität Version Crimp<br>*[capacity version crimp]* | 12 Positionen für Spleißprotektor Crimp<br>*[12 positions for splice protector crimp]* |
| Kapazität Version Schrumpf<br>*[capacity version heat shrink]* | 6 Positionen für Spleißprotektor Schrumpf<br>*[6 positions for splice protector heat shrink]* |

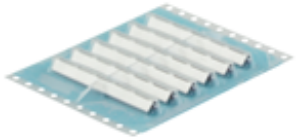


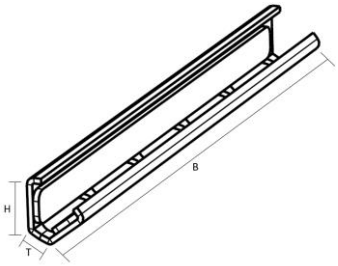





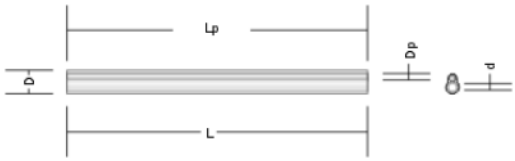
| **Spleißprotektor Crimp**<br>***[splice protector crimp]*** | |
|---|---|
| **Abmaße [BxHxT]**<br>***[dimensions [WxHxD]]*** | 30x3x1,2 mm |
| **Gewicht**<br>***[weight]*** | 0,3g |
| **Typ Spleißprotektor Crimp**<br>***[type of splice protector]*** | TKM SSE – 4780015 |
| **zugelassen nach**<br>***[approved for]*** | TS 0338/96 – Deutsche Telekom |






*exemplarische Abbildung
*[exemplary picture]*

| **Spleißprotektor Schrumpf**<br>***[splice protector heat shrink]*** | |
|---|---|
| **Abmaße [LxD]**<br>***[dimensions [LxD]*** | 40x2,5mm |
| **Gewicht**<br>***[weight]*** | 0,4g |
| **Typ Spleißprotektor Schrumpf**<br>***[type of splice heat shrink]*** | TKM - 4780033 |

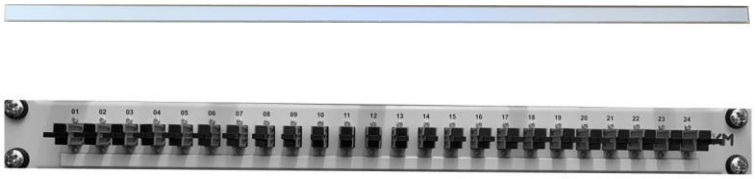



*exemplarische Abbildung
*[exemplary picture]*

## Bestellangaben
## *[ordering information]*

| Artikelnummer<br>*[part no.]* | Beschreibung<br>*[description]* |
|---|---|
| ***Typ Verteilerfeld: LCdx – Ausstattung: mit Spleiß Equipment (HS / GB / GC) und Spleißprotektor (CR / HS)***<br>***[type of panel: LCdx – equipment: with splice equipment (HS / GB / GC) and splice protector (CR / HS)]*** | |
| PP3-24L2AQ-HSCPC-G0-7035 | LWL-Verteilerfeld OM3 – Typ: PPRS-FI-SS – Kupplungen: 24x LCdx – Bestückung: SE-**HS**-SP-CR<br>*[FO patch panel OM3 – type: PPRS-FI-SS – adapters: 24x LCdx – equipped with: SE-**HS**-SP-CR]* |
| PP3-24L2AQ-GBCPC-G0-7035 | LWL-Verteilerfeld OM3 – Typ: PPRS-FI-SS – Kupplungen: 24x LCdx – Bestückung: SE-**GB**-SP-CR<br>*[FO patch panel OM3 – type: PPRS-FI-SS – adapters: 24x LCdx – equipped with: SE-**GB**-SP-CR]* |
| PP3-24L2AQ-GCCPC-G0-7035 | LWL-Verteilerfeld OM3 – Typ: PPRS-FI-SS – Kupplungen: 24x LCdx – Bestückung: SE-**GC**-SP-CR<br>*[FO patch panel OM3 – type: PPRS-FI-SS – adapters: 24x LCdx – equipped with: SE-**GC**-SP-CR]* |
| **Typ Verteilerfeld: LCquad – Ausstattung: mit Spleiß Equipment (HS / GB / GC) und Spleißprotektor (CR / HS)**<br>***[type of panel: LCquad – equipment: with splice equipment (HS / GB / GC) and splice protector (CR / HS)]*** | |
| PP3-24L4AQ-HSCPC-G0-7035 | LWL-Verteilerfeld OM3 – Typ: PPRS-FI-SS – Kupplungen: 24x LCquad – Bestückung: SE-**HS**-SP-CR<br>*[FO patch panel OM3 – type: PPRS-FI-SS – adapters: 24x LCquad – equipped with: SE-**HS**-SP-CR]* |
| PP3-24L4AQ-GBCPC-G0-7035 | LWL-Verteilerfeld OM3 – Typ: PPRS-FI-SS – Kupplungen: 24x LCquad – Bestückung: SE-**GB**-SP-CR<br>*[FO patch panel OM3 – type: PPRS-FI-SS – adapters: 24x LCquad – equipped with: SE-**GB**-SP-CR]* |
| PP3-24L4AQ-GCCPC-G0-7035 | LWL-Verteilerfeld OM3 – Typ: PPRS-FI-SS – Kupplungen: 24x LCquad – Bestückung: SE-**GC**-SP-CR<br>*[FO patch panel OM3 – type: PPRS-FI-SS – adapters: 24x LCquad – equipped with: SE-**GC**-SP-CR]* |
| **Typ Verteilerfeld: SCdx – Ausstattung: mit Spleiß Equipment (HS / GB / GC) und Spleißprotektor (CR / HS)**<br>***[type of panel: SCdx – equipment: with splice equipment (HS / GB / GC) and splice protector (CR / HS)]*** | |
| PP3-24S2AQ-HSCPC-G0-7035 | LWL-Verteilerfeld OM3 – Typ: PPRS-FI-SS – Kupplungen: 24x SCdx – Bestückung: SE-**HS**-SP-CR<br>*[FO patch panel OM3 – type: PPRS-FI-SS – adapters: 24x SCdx – equipped with: SE-**HS**-SP-CR]* |
| PP3-24S2AQ-GBCPC-G0-7035 | LWL-Verteilerfeld OM3 – Typ: PPRS-FI-SS – Kupplungen: 24x SCdx – Bestückung: SE-**GB**-SP-CR<br>*[FO patch panel OM3 – type: PPRS-FI-SS – adapters: 24x SCdx – equipped with: SE-**GB**-SP-CR]* |
| PP3-24S2AQ-GCCPC-G0-7035 | LWL-Verteilerfeld OM3 – Typ: PPRS-FI-SS – Kupplungen: 24x SCdx – Bestückung: SE-**GC**-SP-CR<br>*[FO patch panel OM3 – type: PPRS-FI-SS – adapters: 24x SCdx – equipped with: SE-**GC**-SP-CR]* |
| ℹ | Für Bestückungsvarianten mit weniger als 24x Kupplungen / Spleiß Equipment ändert sich Artikelnummer wie folgt:<br>PP3-**XX**L2AQ-HSCPC-G0-7035:<br>XX – Anzahl gewünschter Adapter mit XX ≤ 23<br><br>*[for other assembly versions with less than 24x adapters / splice equipment the part number has to be modified as follows:*<br>*PP3-**XX**L2AQ-HSCPC-G0-7035:*<br>*XX – quantity of requested adapters XX ≤ 23* |
| ℹ | Legende:<br>*[legend]*<br>SE – Spleißequipment, dabei:<br>HS – High Standard (Markenstecker)<br>GB – Grade B<br>GC – Grade C<br>SP – Spleißprotektor:<br>CR – Crimp Version<br>HS – Heatshrink Version<br><br>Farbcodierung in der Artikelnummer:<br>7035 – grau, RAL 7035<br><br>*[SE – splice equipment, with:*<br>*HS – High Standard (brand connector)*<br>*GB – Grade B*<br>*GC – Grade C*<br>*SP – splice protector:*<br>*CR – crimp version*<br>*HS – heat shrink version]*<br><br>*colour coding in the part number:*<br>*7035 – grey, RAL 7035]* |

## Bestellangaben - Zubehör
## *[ordering information - accessories]*

| Artikelnummer<br>*[part no.]* | Beschreibung<br>*[description]* |
|---|---|
| 01-57-35-0046 | Bezeichnungsstreifen – Schriftfeldhöhe: 8mm – selbstklebend mit transparenter Abdeckung - Abmaße LxBxT ca. 410x9,5x3,5mm<br>*[labelling strip – height of marking field: 8mm – adhesive with transparent cover - dimensions LxWxH: approx.125x9,5x3,5mm]* |
| |  <br>*exemplarische Abbildung<br>*[exemplary picture]* |
| MS-BC-0001 | BC - Blindabdeckung (01-57-35-0026) mit LCquad Footprint für Verteilerfelder - verwendbar für: SCdx / LCquad - Farbe: schwarz - VPE=10<br>*[BC - blind cover (01-57-35-0026) with LCquad footprint for FO patch panel - applicable for: SCdx / LCquad - colour: black - PU=10]* |
| | <br>*exemplarische Abbildung<br>*[exemplary picture]* |
| MS-BC-0002 | BC - Blindabdeckung (01-57-35-0004) mit LCdx Footprint für LWL Verteilerfelder - verwendbar für: SCsx / E2000sx / LCdx - Farbe: schwarz - VPE=10<br>*[BC - Blind cover (01-57-35-0004) with LCdx footprint for FO patch panel - applicable for: SCsx / E2000sx / LCdx - colour: black - PU=10]* |
| | <br>*exemplarische Abbildung<br>*[exemplary picture]* |
| MS-PP-0001 | MS - Montageset für Einbau von 19Zoll Komponenten in Verteilerschränke - VPE=25<br>*[MS - mounting set for installation of 19inch components into racks - PU=25]* |
| | <br>*exemplarische Abbildung<br>*[exemplary picture]* |