

Verbindungstechnik – LWL

[Network Connectivity - FO]

LWL-Verteilerfeld – ausziehbar – OS2**[FO patch panel – extendible – OS2]**

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:

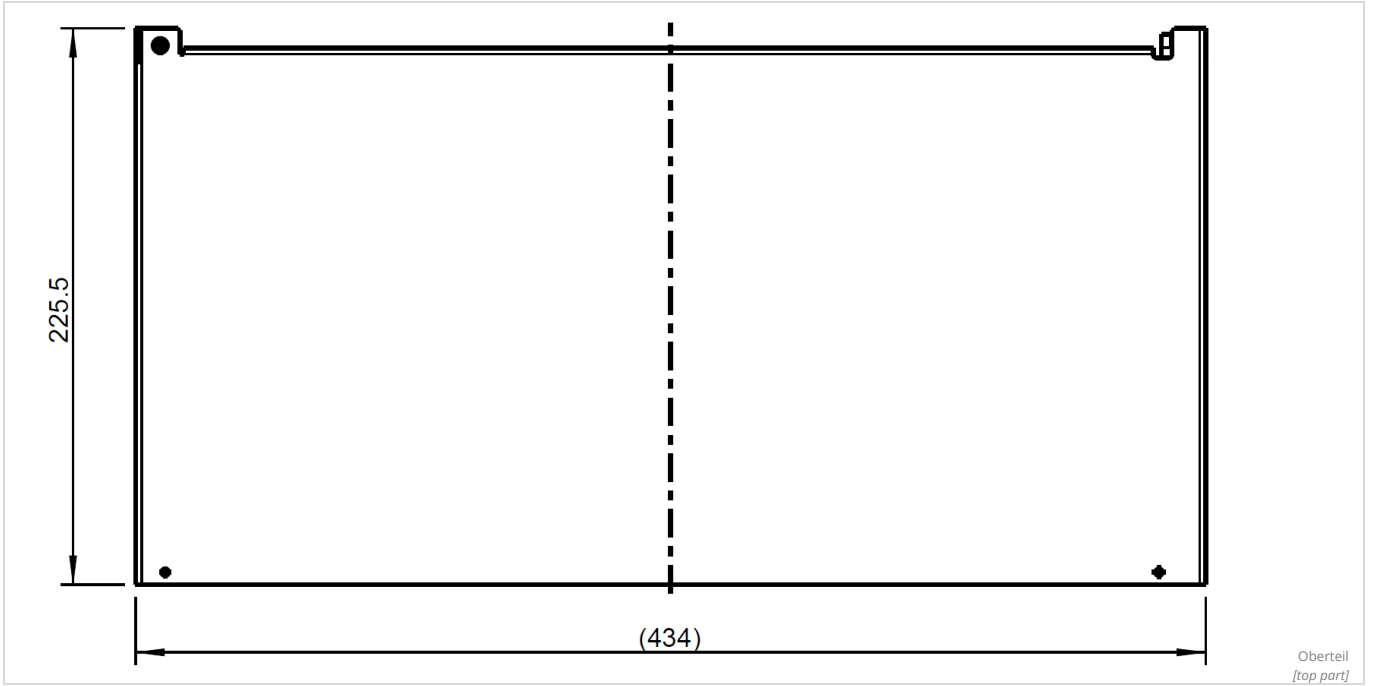
- Spleißequipment (SE) und Spleißprotektor (SP) – Heat Shrink (HS) // Crimp (CR)
- Qualitätsstufen SE: Höchster Standard (HS), Grade B (GB), Grade C (GC)
- Kapazität Fasermanagement: max. 48 Fasern / HE
- Versionen: AIMready

[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:

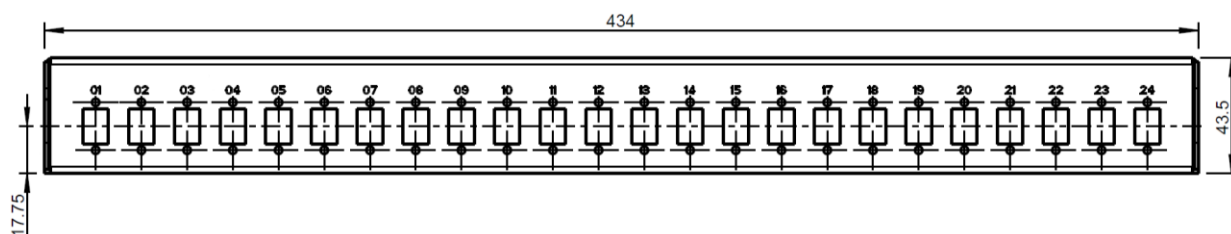
- splice equipment (SE) and splice protector (SP) - heat shrink (SH) // crimp (CR)
- quality grades SE: high standard (HS), grade B (GB), grade C (GC)
- capacity fibre management: max. 48 fibres / U
- versions: AIMready]

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

Gehäusekörper [panel body]			
Mechanische Eigenschaften – Oberteil [mechanical characteristics – top part]			
Material [material]	Aluminium (Gehäuse) – Stahlblech (Haltewinkel) [aluminium (housing) – sheet steel (mounting brackets)]		
Farbe [colour]	schwarz - ähnlich RAL9005 (Haltewinkel) [black - similar to RAL9005 (mounting brackets)]		
Abmaße BxTxH [dimensions WxDxH]	siehe Skizze [see drawing]		
Gewicht [weight]	ca. 600g		
Mechanische Eigenschaften - Schublade [mechanical characteristics – drawer]			
Material [material]	Aluminium [aluminium]		
Farbe [colour]	Eloxal natur [anodized]		
Abmaße BxTxH [dimensions WxDxH]	siehe Skizze [see drawing]		
Schublade Gewicht [weight drawer]	ca. 560g	Gesamtgewicht inkl. 4x Spleißequipment [total weight incl. 4x splice equipment]	ca. 1900g (1600g + 4x 75g)
<p>The drawing shows two views of the device. The top view (labeled 'Schublade [drawer]') is a rectangle with a total width of 430 mm and a total height of 223.9 mm. The top edge has a height of 56.5 mm. The bottom-left corner has a small offset of 6.4 mm. The bottom view (labeled 'Oberteil [top part]') shows a total width of 483 mm. Dashed lines indicate the internal structure and alignment between the two views.</p>			



Frontplatte LCdx Footprint: <i>[front plate LCdx footprint:]</i>	
Material <i>[material]</i>	pulverbeschichteter Stahl <i>[powder coated steel]</i>
Farbe <i>[colour]</i>	schwarz - ähnlich RAL9005 <i>[black - similar to RAL9005]</i>
Abmaße BxTxH <i>[dimensions WxDxH]</i>	siehe Skizze <i>[see drawing]</i>
Gewicht <i>[weight]</i>	ca. 320g
Kapazität <i>[capacity]</i>	bis zu 24x LCdx Kupplungen <i>[up to 24x LCdx adapters]</i>
Portbedruckung <i>[port labelling]</i>	1 - 24
Position Portbedruckung <i>[position of port labelling]</i>	Mitte des Ports <i>[middle of port]</i>



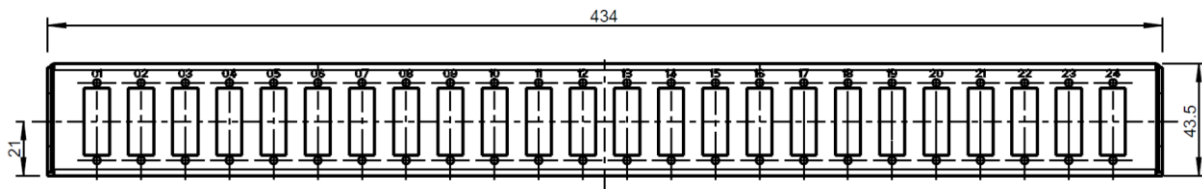
Frontplatte
[front plate]

LWL Kupplung: <i>[FO adapter:]</i>	
Version <i>[version]</i>	LC DX
Material Gehäuse <i>[material body]</i>	Polycarbonat UL 94V0 <i>[polycarbonate UL 94V0]</i>
Farbe Gehäuse <i>[colour body]</i>	blau - ähnlich RAL5019 // grün - ähnlich RAL6018 <i>[blue - similar to RAL 5019 // green - similar to RAL 6018]</i>
Ferrulentyp <i>[type of sleeve]</i>	Keramik <i>[ceramic]</i>
Staubschutz <i>[dust protection]</i>	Inkl. Staubschutzkappe <i>[incl. dust cap]</i>



*exemplarische Abbildung
[exemplary picture]

Frontplatte SCdx Footprint: <i>[front plate SCdx footprint:]</i>	
Material <i>[material]</i>	pulverbeschichteter Stahl <i>[powder coated steel]</i>
Farbe <i>[colour]</i>	schwarz - ähnlich RAL9005 <i>[black - similar to RAL9005]</i>
Abmaße BxTxH <i>[dimensions WxDxH]</i>	siehe Skizze <i>[see drawing]</i>
Gewicht <i>[weight]</i>	ca. 280g
Kapazität <i>[capacity]</i>	bis zu 24x SCdx Kupplungen <i>[up to 24x SCdx adapters]</i>
Portbedruckung <i>[port printing]</i>	1 - 24
Position Portbedruckung <i>[position of port printing]</i>	Mitte des Ports <i>[middle of port]</i>






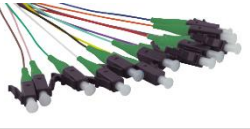



Frontplatte
[front plate]

LWL Kupplung: <i>[FO adapter:]</i>	
Version <i>[version]</i>	SC DX
Material Gehäuse <i>[material body]</i>	Polycarbonat UL 94V0 <i>[polycarbonate UL 94V0]</i>
Farbe Gehäuse <i>[colour body]</i>	blau - ähnlich RAL5019 // grün - ähnlich RAL6018 <i>[blue - similar to RAL 5019 // green - similar to RAL 6018]</i>
Ferrulentyp <i>[type of sleeve]</i>	Keramik <i>[ceramic]</i>
Staubschutz <i>[dust protection]</i>	Inkl. Staubschutzkappe <i>[incl. dust cap]</i>

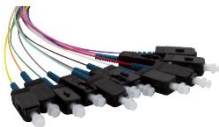
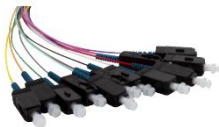
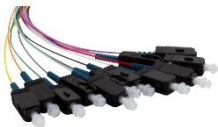
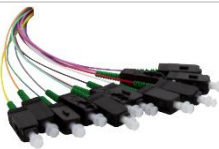
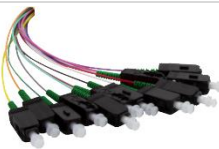
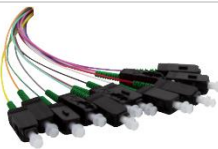
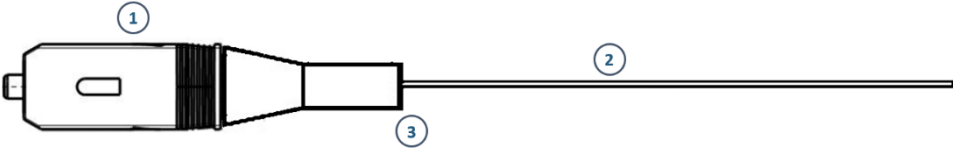


*exemplarische Abbildung
[exemplary picture]

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]	Blau [blue]	Blau [blue]
Farbe Knickschutz [colour boot]	Blau [blue]	Weiß [white]	Weiß [white]
IL@97% [db]: // RL [db]:	≤ 0,25 ≥ 45	≤ 0,25 ≥ 45	≤ 0,50 ≥ 45
IL (typical) [db]: // RL (typical) [db]:	≤ 0,12 ≥ 55	≤ 0,12 ≥ 55	≤ 0,25 ≥ 50
IEC 61300-3-34 / IEC 61300-3-6	GRADE B/2	GRADE B/2	GRADE C/2
			
	*exemplarische Abbildung , Produkt kann farblich abweichen [exemplary picture, product may vary in colour]		
Steckertyp [types of connector]	LC/APC8°		
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]	Grün [green]	Grün [green]
Farbe Knickschutz [colour boot]	Grün [green]	Weiß [white]	Weiß [white]
IL@97% [db]: // RL (mated) [db]:	≤ 0,25 ≥ 60	≤ 0,25 ≥ 60	≤ 0,50 ≥ 60
IL (typical) [db]: // RL (typical) [db]:	≤ 0,12 ≥ 70	≤ 0,20 ≥ 70	≤ 0,25 ≥ 65
IEC 61300-3-34 / IEC 61300-3-6	GRADE B/1	GRADE B/1	GRADE C/1
			
	*exemplarische Abbildung , Produkt kann farblich abweichen [exemplary picture, product may vary in colour]		
Faser [fibre]	1xE9/125 OS2 G.657		
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: [pigtailset SC:]			
Steckertyp [types of connector]	SC/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]	Blau [blue]	Blau [blue]	Blau [blue]
Farbe Knickschutz [colour boot]	Schwarz [black]	Blau [blue]	Blau [blue]
IL@97% [db]: // RL [db]: IL (typical) [db]: // RL (typical) [db]: IEC 61300-3-34 / IEC 61300-3-6	≤ 0,25 ≥ 45 ≤ 0,12 ≥ 55 GRADE B/2	≤ 0,25 ≥ 45 ≤ 0,12 ≥ 55 GRADE B/2	≤ 0,50 ≥ 45 ≤ 0,25 ≥ 50 GRADE C/2
			
	*exemplarische Abbildung , Produkt kann farblich abweichen [exemplary picture, product may vary in colour]		
Steckertyp [types of connector]	SC/APC8°		
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]	Grün [green]	Grün [green]	Grün [green]
Farbe Knickschutz [colour boot]	Grün [green]	Grün [green]	Grün [green]
IL@97% [db]: // RL (mated) [db]: IL (typical) [db]: // RL (typical) [db]: IEC 61300-3-34 / IEC 61300-3-6	≤ 0,25 ≥ 60 ≤ 0,12 ≥ 70 GRADE B/1	≤ 0,25 ≥ 60 ≤ 0,20 ≥ 70 GRADE B/1	≤ 0,50 ≥ 60 ≤ 0,25 ≥ 65 GRADE C/1
			
	*exemplarische Abbildung , Produkt kann farblich abweichen [exemplary picture, product may vary in colour]		
Faser [fibre]	1xE9/125 OS2 G.657		
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 SC Stecker [exemplarily SC connector]		
1	Steckerkörper [connector body]	2	Faser [fibre]
3	Knickschutz [boot]	4	n.a. [n.a.]

Spleißkassette:
[splice cassette:]

Spleißkassette
[splice cassette]

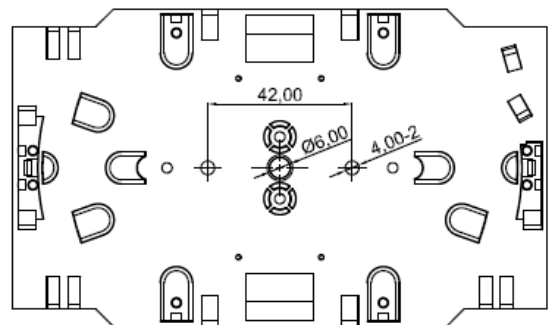
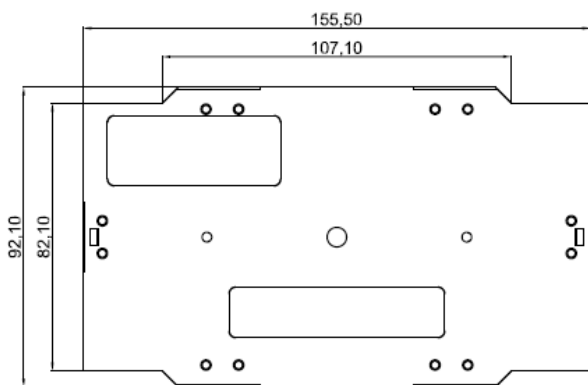
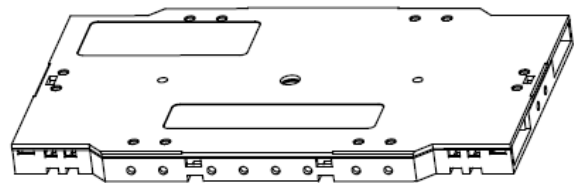
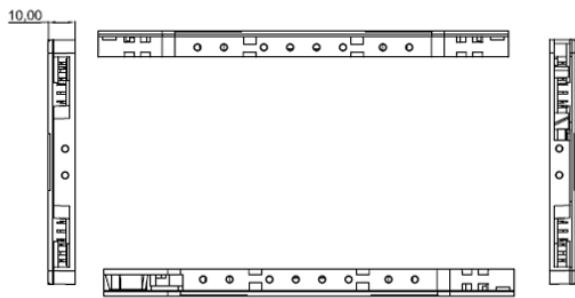
Material [material]	Acrylnitril-Butadien-Styrol-Copolymere (ABS)
Aufnahmekapazität [capacity]	je Spleißkassette bis zu 24 Fasern [each splice cassette up to 24 fibres]
Gewicht [weight]	30g

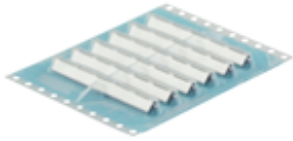
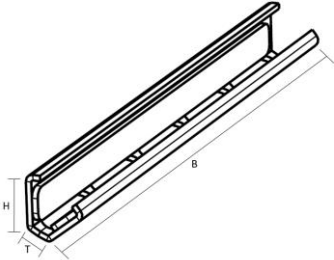
Spleißkassettendeckel
[splice cassette top cover]

Material [material]	Acrylnitril-Butadien-Styrol-Copolymere (ABS)
Beschriftung [labelling]	mit Laser-Hinweisschild und Farbcode versehen [signed with laser indicating label and colour code]
Gewicht [weight]	20g



Spleißhalter
[splice holder]

Material [material]	Acrylnitril-Butadien-Styrol-Copolymere (ABS)
Kapazität Version Crimp [capacity version crimp]	12 Positionen für Spleißprotector Crimp [12 positions for splice protector crimp]
Kapazität Version Schrumpf [capacity version heat shrink]	6 Positionen für Spleißprotector Schrumpf [6 positions for splice protector heat shrink]





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

*exemplarische Abbildung
[exemplary picture]


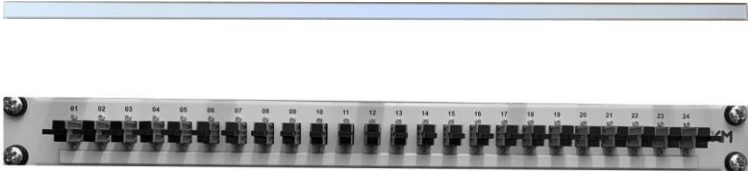






Spleißprotector Schrumpf <i>[splice protector heat shrink]</i>	
Abmaße [LxD] <i>[dimensions [LxD]]</i>	40x2,5mm
Gewicht <i>[weight]</i>	0,4g
Typ Spleißprotector Schrumpf <i>[type of splice heat shrink]</i>	TKM - 4780033
	

*exemplarische Abbildung
[exemplary picture]

Bestellangaben [ordering information]

Artikelnummer [part no.]	Beschreibung [description]
Typ Verteilerfeld: AIMready - V2 - LCdx - Ausstattung: mit Spleiß Equipment (HS / GB / GC) und Spleißprotector (CR / HS) <i>[type of panel: AIMready - V2 - LCdx - equipment: with splice equipment (HS / GB / GC) and splice protector (CR / HS)]</i>	
AP2-24L2BL-HSCPC-G0-9005	AIMready - V2 - LWL-Verteilerfeld OS2- PC – Typ: PPRS-EX-AL – Kupplungen: 24x LCdx – Bestückung: SE- HS -SP-CR <i>[FO patch panel OS2-PC – type: PPRS-EX-AL – adapters: 24x LCdx – equipped with: SE-HS-SP-CR]</i>
AP2-24L2BL-GBCPC-G0-9005	AIMready - V2 - LWL-Verteilerfeld OS2- PC – Typ: PPRS-EX-AL – Kupplungen: 24x LCdx – Bestückung: SE- GB -SP-CR <i>[FO patch panel OS2-PC – type: PPRS-EX-AL – adapters: 24x LCdx – equipped with: SE-GB-SP-CR]</i>
AP2-24L2BL-GCCPC-G0-9005	AIMready - V2 - LWL-Verteilerfeld OS2- PC – Typ: PPRS-EX-AL – Kupplungen: 24x LCdx – Bestückung: SE- GC -SP-CR <i>[FO patch panel OS2-PC – type: PPRS-EX-AL – adapters: 24x LCdx – equipped with: SE-GC-SP-CR]</i>
AP2-24L2GN-HSCA8-G0-9005	AIMready - V2 - LWL-Verteilerfeld OS2- APC8 – Typ: PPRS-EX-AL – Kupplungen: 24x LCdx – Bestückung: SE- HS -SP-CR <i>[FO patch panel OS2-APC8 – type: PPRS-EX-AL – adapters: 24x LCdx – equipped with: SE-HS-SP-CR]</i>
Typ Verteilerfeld: AIMready - V2 - SCdx - Ausstattung: mit Spleiß Equipment (HS / GB / GC) und Spleißprotector (CR / HS) <i>[type of panel: AIMready - V2 - SCdx - equipment: with splice equipment (HS / GB / GC) and splice protector (CR / HS)]</i>	
AP2-24S2BL-HSCPC-G0-9005	AIMready - V2 - LWL-Verteilerfeld OS2- PC – Typ: PPRS-EX-AL – Kupplungen: 24x SCdx – Bestückung: SE- HS -SP-CR <i>[FO patch panel OS2-PC – type: PPRS-EX-AL – adapters: 24x SCdx – equipped with: SE-HS-SP-CR]</i>
AP2-24S2BL-GBCPC-G0-9005	AIMready - V2 - LWL-Verteilerfeld OS2- PC – Typ: PPRS-EX-AL – Kupplungen: 24x SCdx – Bestückung: SE- GB -SP-CR <i>[FO patch panel OS2-PC – type: PPRS-EX-AL – adapters: 24x SCdx – equipped with: SE-GB-SP-CR]</i>
AP2-24S2BL-GCCPC-G0-9005	AIMready - V2 - LWL-Verteilerfeld OS2- PC – Typ: PPRS-EX-AL – Kupplungen: 24x SCdx – Bestückung: SE- GC -SP-CR <i>[FO patch panel OS2-PC – type: PPRS-EX-AL – adapters: 24x SCdx – equipped with: SE-GC-SP-CR]</i>
AP2-24S2GN-HSCA8-G0-9005	AIMready - V2 - LWL-Verteilerfeld OS2- APC8 – Typ: PPRS-EX-AL – Kupplungen: 24x SCdx – Bestückung: SE- HS -SP-CR <i>[FO patch panel OS2-APC8 – type: PPRS-EX-AL – adapters: 24x SCdx – equipped with: SE-HS-SP-CR]</i>
	Für Bestückungsvarianten mit weniger als 24x Kupplungen / Spleiß Equipment ändert sich Artikelnummer wie folgt: AP2- XXL 2BL-HSCPC-G0-9005: XX – Anzahl gewünschter Adapter mit XX ≤ 23 <i>[for other assembly versions with less than 24x adapters / splice equipment the part number has to be modified as follows: AP2-XXL2BL-HSCPC-G0-9005: XX – quantity of requested adapters XX ≤ 23]</i>
	Legende: <i>[legend]</i> SE – Spleißequipment, dabei: HS – High Standard (Markenstecker) GB – Grade B GC – Grade C SP – Spleißprotector: CR – Crimp Version HS – Heatshrink Version Farbcodierung in der Artikelnummer: 9005 – grau, RAL 9005 <i>[SE – splice equipment, with: HS – High Standard (brand connector) GB – Grade B GC – Grade C SP – splice protector: CR – crimp version HS – heat shrink version]</i> <i>colour coding in the part number: 9005 – grey, RAL 9005]</i>

Bestellangaben - Zubehör [ordering information - accessories]

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