

Title (en)  
ULTRA-SMALL FORM FACTOR OPTICAL CONNECTOR AND ADAPTER

Title (de)  
OPTISCHER VERBINDER MIT ULTRAKLEINEM FORMFAKTOR UND ADAPTER

Title (fr)  
CONNECTEUR OPTIQUE À FACTEUR DE FORME ULTRA-PETIT ET ADAPTATEUR

Publication  
**EP 3776039 A1 20210217 (EN)**

Application  
**EP 19776787 A 20190116**

Priority  

- US 201862649539 P 20180328
- US 201816035691 A 20180715
- US 201816103555 A 20180814
- US 201816194325 A 20181117
- US 2019013861 W 20190116

Abstract (en)  
[origin: MX2020010106A] An optical connector holding two or more LC-type optical ferrules is provided. The optical connector includes an outer body, an inner front body accommodating the two or more LC-type optical ferrules, ferrule springs for urging the optical ferrules towards a mating receptacle, and a back body for supporting the ferrule springs. The outer body and the inner front body are configured such that four LC-type optical ferrules are accommodated in a small form-factor pluggable (SFP) transceiver footprint or eight LC-type optical ferrules are accommodated in a quad small form-factor pluggable (QSFP) transceiver footprint. A mating receptacle (transceiver or adapter) includes internal alignment slots configured to accept a corresponding alignment key on connector outer housing to ensure alignment and orientation for maximum signal transfer between opposing ferrule end faces.

IPC 8 full level  
**G02B 6/08** (2006.01); **G02B 6/36** (2006.01); **G02B 6/38** (2006.01); **G02B 6/42** (2006.01)

CPC (source: EP US)  
**G02B 6/3825** (2013.01 - EP US); **G02B 6/387** (2013.01 - US); **G02B 6/3879** (2013.01 - EP US); **G02B 6/3887** (2013.01 - US);  
**G02B 6/38875** (2021.05 - EP); **G02B 6/3893** (2013.01 - EP US); **G02B 6/403** (2013.01 - US); **G02B 6/406** (2013.01 - US);  
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Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
EP 3776039 A1 20210217; EP 3776039 A4 20220504; MX 2020010106 A 20210226

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