

The Cisco optics cross-reference guide.

439 Cisco and Meraki part numbers matched to their compatible equivalents, across 17 product families from 100M SFP to 800G OSFP — transceivers, direct attach copper, active optical cables and single-fibre BiDi. Not the whole of Cisco's catalogue; the parts we are asked for and can match.

439 part numbers

17 product families

Matched on **specification**, never on the name

How the matching works

Every mapping in this guide pairs a Cisco part number with the Carritech Optics transceiver built to the **same specification** — the same standard, form factor, wavelength and reach. Matching is done on the specification, never on the letters in the part name: two vendors can call entirely different optics "LH", so names are not evidence.

The equivalence is possible because optical transceivers are built to public standards — IEEE 802.3 for Ethernet, the Fibre Channel standards for storage — and to common form-factor specifications (SFF-8472 for SFP and SFP+, SFF-8636 for QSFP, CMIS for QSFP-DD and OSFP). The standard does not belong to any vendor, and it does not go end-of-sale.

What decides whether the link comes up: coding

What makes an optic "a Cisco optic" is not the optics. It is the identity written into the module's EEPROM, which the switch reads on insertion. Carritech Optics transceivers are **coded to order for the platform they are going into** and tested on that platform before shipping. That is why the one question that matters when ordering is: **which switch or router is this optic going into?**

Multi-rate parts. Some Cisco part numbers (the -X and -I variants, and OTU-capable parts) differ from the base part in temperature range or protocol support rather than optics. Where the range covers the base specification, the mapping is shown; check the temperature range with us if the deployment is industrial.

Warranty, stated accurately

Cisco's published Non-Entitlement Policy is conditional and discretionary: support **may** be withheld where a fault is believed to trace to a third-party component — and where the fault is not attributable to that component, Cisco states it will continue to provide support. It is not a blanket void. Every Carritech Optics transceiver additionally carries a **lifetime warranty** of its own.

Keep a diagnostic swap kit. Whatever you populate your estate with, keep two or three OEM optics on the shelf. If you raise a support case on a port, you will be asked to eliminate the optic as a variable — being able to do that in ten minutes is worth the shelf space.

SFP — 100M / 1G

CISCO PART NUMBER	CARRITECH OPTICS EQUIVALENT	SPECIFICATION
GLC-BX40-D-I	CT-SFP-BX-40D	
GLC-BX40-DA-I	CT-SFP-BX-40D	1000BASE-BX40-D (alt) · 40 km
GLC-BX40-U-I	CT-SFP-BX-40U	
GLC-BX80-D-I	CT-SFP-BX-80D	1000BASE-BX80-D · 80 km
GLC-BX80-U-I	CT-SFP-BX-80U	1000BASE-BX80-U · 80 km
GLC-EX-SMD	CT-SFP-EX	
GLC-EX-SMD=	CT-MSFP-EX	SFP · 40KM
GLC-FE-100EX	CT-MSFP-EX	100BASE-EX · SM · 40 km
GLC-FE-100FX	CT-MSFP-SX-2	
GLC-FE-100FX-RGD	CT-MSFP-SX-2	100BASE-FX · 2 km MMF
GLC-FE-100FX=	CT-MSFP-SX-2	SFP · 2KM
GLC-FE-100ZX	CT-MSFP-XZX++	
GLC-GE-100FX	CT-MSFP-SX-2	100BASE-FX · 2 km MMF
GLC-GE-DR-LX	CT-SFP-LX	100/1000BASE-LX dual-rate · 10 km
GLC-LH-SM	CT-SFP-LX	1000BASE-LX/LH · 10 km
GLC-LH-SMD	CT-SFP-LX	
GLC-LX-SM-RGD	CT-SFP-LX	1000BASE-LX/LH · 10 km
GLC-SX-MM	CT-MSFP-SX-1	1000BASE-SX · 550 m
GLC-SX-MM-RGD	CT-SFP-SX-1	
GLC-SX-MMD	CT-MSFP-SX-1	1000BASE-SX · 550 m OM2 / 1000 m OM4
GLC-T	CT-SFP-T-AS	

SFP — 100M / 1G (continued)

CISCO PART NUMBER	CARRITECH OPTICS EQUIVALENT	SPECIFICATION
GLC-T-RGD	CT-SFP-T	1000BASE-T · 100 m
GLC-TE	CT-SFP-T	
GLC-ZX-SM	CT-SFP-ZX	1000BASE-ZX · ~70 km
GLC-ZX-SM-RGD	CT-SFP-ZX	1000BASE-ZX · ~70 km
GLC-ZX-SMD	CT-SFP-ZX	
GLC-ZX-SMD=	CT-MSFP-ZX	SFP · 80KM
MGBLH1	CT-SFP-EX	1000BASE-LH · 40 km
MGBLX1	CT-SFP-LX	1000BASE-LX · 10 km
SFP-1G-LH	CT-SFP-LX	1000BASE-LX/LH · 10 km
SFP-1G-SX	CT-SFP-SX-1	1000BASE-SX · 550 m
SFP-1G-T-X	CT-SFP-T	1000BASE-T · 100 m
SFP-GE-L	CT-SFP-LX	1000BASE-LX/LH · 10 km
SFP-GE-S	CT-SFP-SX-1	1000BASE-SX · 550 m
SFP-GE-T	CT-SFP-T	1000BASE-T · RJ-45 · 100 m

SFP+ / XFP — 10G

CISCO PART NUMBER	CARRITECH OPTICS EQUIVALENT	SPECIFICATION
CWDM-SFP10G-1470	CT-SFP+CWXX-80	
CWDM-SFP10G-1490	CT-SFP+CWXX-80	
CWDM-SFP10G-1510	CT-SFP+CWXX-80	
CWDM-SFP10G-1530	CT-SFP+CWXX-80	
CWDM-SFP10G-1550	CT-SFP+CWXX-80	
CWDM-SFP10G-1570	CT-SFP+CWXX-80	

SFP+ / XFP — 10G (continued)

CISCO PART NUMBER	CARRITECH OPTICS EQUIVALENT	SPECIFICATION
CWDM-SFP10G-1590	CT-SFP+CWXX-80	
CWDM-SFP10G-1610	CT-SFP+CWXX-80	
DWDM-SFP10G-30.33	CT-SFP+DWXX-80	
DWDM-SFP10G-50.12	CT-SFP+DWXX-80	
DWDM-SFP10G-61.41	CT-SFP+DWXX-80	
DWDM-SFP10G-C	CT-SFP+TDWXX-80	
DWDM-SFP10G-C-S=	CT-SFP+TDWXX-80	10G tunable DWDM · 70 km
DWDM-SFP10G-E-I=	CT-SFP+TDWXX-80	10G tunable DWDM · industrial
SFP-10G-BX40D-I	CT-SFP+-BX-40D	
SFP-10G-BX40U-I	CT-SFP+BX-40U	10G BiDi · 40 km · upstream · TX 1270 / RX 1330 nm
SFP-10G-BXD-I	CT-SFP+-BX-10D	
SFP-10G-BXU-I	CT-SFP+BX-10U	
SFP-10G-ER	CT-SFP+ER	10GBASE-ER/EW, OTU2/OTU2e · 40 km
SFP-10G-ER-I	CT-SFP+ER	10GBASE-ER/EW, OTU2/OTU2e · 40 km
SFP-10G-ER-S	CT-SFP+ER	
SFP-10G-LR	CT-SFP+LR	
SFP-10G-LR-S	CT-SFP+LR	
SFP-10G-LR-S=	CT-SFP+LR	SFP+ · 10KM
SFP-10G-LR-X	CT-SFP+LR	10GBASE-LR/LW, OTU2/OTU2e · 10 km

SFP+ / XFP — 10G (continued)

CISCO PART NUMBER	CARRITECH OPTICS EQUIVALENT	SPECIFICATION
SFP-10G-LR10-I	CT-SFP+LR	10GBASE-LR · 10 km
SFP-10G-SR	CT-SFP+SR	
SFP-10G-SR-I	CT-SFP+SR	
SFP-10G-SR-S	CT-SFP+SR	
SFP-10G-SR-S=	CT-SFP+SR	SFP+ · 300M
SFP-10G-SR-X	CT-SFP+SR	10GBASE-SR/SW, OTU2/OTU2e · 300/400 m
SFP-10G-T-X	CT-SFP+T-30	
SFP-10G-ZR	CT-SFP+ZR	10GBASE-ZR/ZW · 70 km
SFP-10G-ZR-I	CT-SFP+ZR	10GBASE-ZR/ZW · 70 km
SFP-10G-ZR-S	CT-SFP+ZR	
SFP-10G-ZR-S=	CT-SFP+ZR	SFP+ · 80KM
XFP-10G-MM-SR	CT-XFP-SR	10GBASE-SR / OC-192 · 300 m OM3 / 400 m OM4
XFP-10GER-192IR+	CT-XFP-ER	10GBASE-ER/EW, OC-192 IR-2 · 40 km
XFP-10GER-OC192IR	CT-XFP-ER-1310	10GBASE-ER / 10GBASE-EW / OC-192 STM-64 IR-2 · 40 km
XFP-10GLR-OC192SR	CT-XFP-LR	10GBASE-LR/LW, OC-192 SR-1 · 10 km / 2 km OC-192
XFP-10GZR-OC192LR	CT-XFP-ZR	10GBASE-ZR/ZW, OC-192 LR-2 · 80 km

SFP+ / XFP — 10G (continued)

CISCO PART NUMBER	CARRITECH OPTICS EQUIVALENT	SPECIFICATION
XFP10GER-192IR-L	CT-XFP-ER	10GBASE-ER/EW, OC-192 IR-2 · 40 km
XFP10GER192IR-RGD	CT-XFP-ER	10GBASE-ER/EW · 40 km
XFP10GLR-192SR-L	CT-XFP-LR	10GBASE-LR/LW, OC-192 SR-1 · 10 km
XFP10GLR192SR-RGD	CT-XFP-LR	10GBASE-LR/LW, OC-192 SR-1 · 10 km
XFP10GZR192LR-RGD	CT-XFP-ZR	10GBASE-ZR/ZW · 80 km

CWDM / DWDM SFP

CISCO PART NUMBER	CARRITECH OPTICS EQUIVALENT	SPECIFICATION
CWDM-SFP-1470	CT-SFP-CWXX-80	
CWDM-SFP-1470=	CT-SFP-CWXX-80	SFP · 80KM
CWDM-SFP-1490	CT-SFP-CWXX-80	
CWDM-SFP-1490=	CT-SFP-CWXX-80	SFP · 80KM
CWDM-SFP-1510	CT-SFP-CWXX-80	
CWDM-SFP-1510=	CT-SFP-CWXX-80	SFP · 80KM
CWDM-SFP-1530	CT-SFP-CWXX-80	
CWDM-SFP-1530=	CT-SFP-CWXX-80	SFP · 80KM
CWDM-SFP-1550	CT-SFP-CWXX-80	
CWDM-SFP-1550=	CT-SFP-CWXX-80	SFP · 80KM
CWDM-SFP-1570	CT-SFP-CWXX-80	
CWDM-SFP-1570=	CT-SFP-CWXX-80	SFP · 80KM

CWDM / DWDM SFP (continued)

CISCO PART NUMBER	CARRITECH OPTICS EQUIVALENT	SPECIFICATION
CWDM-SFP-1590	CT-SFP-CWXX-80	
CWDM-SFP-1590=	CT-SFP-CWXX-80	SFP · 80KM
CWDM-SFP-1610	CT-SFP-CWXX-80	
CWDM-SFP-1610=	CT-SFP-CWXX-80	SFP · 80KM
DWDM-SFP-3033	CT-SFP-DWXX-80	
DWDM-SFP-3033=	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-3112	CT-SFP-DWXX-80	
DWDM-SFP-3112=	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-3190	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-3190=	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-3268	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-3268=	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-3346	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-3346=	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-3425	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-3425=	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-3504	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-3504=	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-3582	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-3582=	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-3661	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-3661=	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-3739	CT-SFP-DWXX-80	SFP · 80KM

CWDM / DWDM SFP (continued)

CISCO PART NUMBER	CARRITECH OPTICS EQUIVALENT	SPECIFICATION
DWDM-SFP-3739=	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-3819	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-3819=	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-3898	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-3898=	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-3977	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-3977=	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-4056	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-4056=	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-4134	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-4134=	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-4214	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-4214=	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-4294	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-4294=	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-4373	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-4373=	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-4453	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-4453=	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-4532	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-4532=	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-4612	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-4612=	CT-SFP-DWXX-80	SFP · 80KM

CWDM / DWDM SFP (continued)

CISCO PART NUMBER	CARRITECH OPTICS EQUIVALENT	SPECIFICATION
DWDM-SFP-4692	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-4692=	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-4772	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-4772=	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-4851	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-4851=	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-4931	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-4931=	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-5012	CT-SFP-DWXX-80	
DWDM-SFP-5012=	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-5092	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-5092=	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-5172	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-5172=	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-5252	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-5252=	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-5332	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-5332=	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-5413	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-5413=	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-5494	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-5494=	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-5575	CT-SFP-DWXX-80	SFP · 80KM

CWDM / DWDM SFP (continued)

CISCO PART NUMBER	CARRITECH OPTICS EQUIVALENT	SPECIFICATION
DWDM-SFP-5575=	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-5655	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-5655=	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-5736	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-5736=	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-5817	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-5817=	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-5898	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-5898=	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-5979	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-5979=	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-6061	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-6061=	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP-6141	CT-SFP-DWXX-80	
DWDM-SFP-6141=	CT-SFP-DWXX-80	SFP · 80KM
DWDM-SFP10G-31.12	CT-SFP+DWXX-80	DWDM 100GHz · 31.12 nm · 80 km
DWDM-SFP10G-31.90	CT-SFP+DWXX-80	DWDM 100GHz · 31.90 nm · 80 km
DWDM-SFP10G-32.68	CT-SFP+DWXX-80	DWDM 100GHz · 32.68 nm · 80 km
DWDM-SFP10G-33.47	CT-SFP+DWXX-80	DWDM 100GHz · 33.47 nm · 80 km
DWDM-SFP10G-34.25	CT-SFP+DWXX-80	DWDM 100GHz · 34.25 nm · 80 km
DWDM-SFP10G-35.04	CT-SFP+DWXX-80	DWDM 100GHz · 35.04 nm · 80 km
DWDM-SFP10G-35.82	CT-SFP+DWXX-80	DWDM 100GHz · 35.82 nm · 80 km
DWDM-SFP10G-36.61	CT-SFP+DWXX-80	DWDM 100GHz · 36.61 nm · 80 km

CWDM / DWDM SFP (continued)

CISCO PART NUMBER	CARRITECH OPTICS EQUIVALENT	SPECIFICATION
DWDM-SFP10G-37.40	CT-SFP+DWXX-80	DWDM 100GHz · 37.40 nm · 80 km
DWDM-SFP10G-38.19	CT-SFP+DWXX-80	DWDM 100GHz · 38.19 nm · 80 km
DWDM-SFP10G-38.98	CT-SFP+DWXX-80	DWDM 100GHz · 38.98 nm · 80 km
DWDM-SFP10G-39.77	CT-SFP+DWXX-80	DWDM 100GHz · 39.77 nm · 80 km
DWDM-SFP10G-40.56	CT-SFP+DWXX-80	DWDM 100GHz · 40.56 nm · 80 km
DWDM-SFP10G-41.35	CT-SFP+DWXX-80	DWDM 100GHz · 41.35 nm · 80 km
DWDM-SFP10G-42.14	CT-SFP+DWXX-80	DWDM 100GHz · 42.14 nm · 80 km
DWDM-SFP10G-42.94	CT-SFP+DWXX-80	DWDM 100GHz · 42.94 nm · 80 km
DWDM-SFP10G-43.73	CT-SFP+DWXX-80	DWDM 100GHz · 43.73 nm · 80 km
DWDM-SFP10G-44.53	CT-SFP+DWXX-80	DWDM 100GHz · 44.53 nm · 80 km
DWDM-SFP10G-45.32	CT-SFP+DWXX-80	DWDM 100GHz · 45.32 nm · 80 km
DWDM-SFP10G-46.12	CT-SFP+DWXX-80	DWDM 100GHz · 46.12 nm · 80 km
DWDM-SFP10G-46.92	CT-SFP+DWXX-80	DWDM 100GHz · 46.92 nm · 80 km
DWDM-SFP10G-47.72	CT-SFP+DWXX-80	DWDM 100GHz · 47.72 nm · 80 km
DWDM-SFP10G-48.51	CT-SFP+DWXX-80	DWDM 100GHz · 48.51 nm · 80 km
DWDM-SFP10G-49.32	CT-SFP+DWXX-80	DWDM 100GHz · 49.32 nm · 80 km
DWDM-SFP10G-50.92	CT-SFP+DWXX-80	DWDM 100GHz · 50.92 nm · 80 km
DWDM-SFP10G-51.72	CT-SFP+DWXX-80	DWDM 100GHz · 51.72 nm · 80 km
DWDM-SFP10G-52.52	CT-SFP+DWXX-80	DWDM 100GHz · 52.52 nm · 80 km
DWDM-SFP10G-53.33	CT-SFP+DWXX-80	DWDM 100GHz · 53.33 nm · 80 km
DWDM-SFP10G-54.13	CT-SFP+DWXX-80	DWDM 100GHz · 54.13 nm · 80 km
DWDM-SFP10G-54.94	CT-SFP+DWXX-80	DWDM 100GHz · 54.94 nm · 80 km
DWDM-SFP10G-55.75	CT-SFP+DWXX-80	DWDM 100GHz · 55.75 nm · 80 km

CWDM / DWDM SFP (continued)

CISCO PART NUMBER	CARRITECH OPTICS EQUIVALENT	SPECIFICATION
DWDM-SFP10G-56.55	CT-SFP+DWXX-80	DWDM 100GHz · 56.55 nm · 80 km
DWDM-SFP10G-57.36	CT-SFP+DWXX-80	DWDM 100GHz · 57.36 nm · 80 km
DWDM-SFP10G-58.17	CT-SFP+DWXX-80	DWDM 100GHz · 58.17 nm · 80 km
DWDM-SFP10G-58.98	CT-SFP+DWXX-80	DWDM 100GHz · 58.98 nm · 80 km
DWDM-SFP10G-59.79	CT-SFP+DWXX-80	DWDM 100GHz · 59.79 nm · 80 km
DWDM-SFP10G-60.61	CT-SFP+DWXX-80	DWDM 100GHz · 60.61 nm · 80 km
DWDM-SFP10G-C=	CT-SFP+DWXX-80	SFP+ · 80KM
DWDM-XFP-30.33	CT-XFP-DWXX-80	DWDM channel · 80 km
DWDM-XFP-31.12	CT-XFP-DWXX-80	DWDM channel · 80 km
DWDM-XFP-31.90	CT-XFP-DWXX-80	DWDM channel · 80 km
DWDM-XFP-32.68	CT-XFP-DWXX-80	DWDM channel · 80 km
DWDM-XFP-34.25	CT-XFP-DWXX-80	DWDM channel · 80 km
DWDM-XFP-35.04	CT-XFP-DWXX-80	DWDM channel · 80 km
DWDM-XFP-35.82	CT-XFP-DWXX-80	DWDM channel · 80 km
DWDM-XFP-36.61	CT-XFP-DWXX-80	DWDM channel · 80 km
DWDM-XFP-38.19	CT-XFP-DWXX-80	DWDM channel · 80 km
DWDM-XFP-38.98	CT-XFP-DWXX-80	DWDM channel · 80 km
DWDM-XFP-39.77	CT-XFP-DWXX-80	DWDM channel · 80 km
DWDM-XFP-40.56	CT-XFP-DWXX-80	DWDM channel · 80 km
DWDM-XFP-42.14	CT-XFP-DWXX-80	DWDM channel · 80 km
DWDM-XFP-42.94	CT-XFP-DWXX-80	DWDM channel · 80 km
DWDM-XFP-43.73	CT-XFP-DWXX-80	DWDM channel · 80 km
DWDM-XFP-44.53	CT-XFP-DWXX-80	DWDM channel · 80 km

CWDM / DWDM SFP (continued)

CISCO PART NUMBER	CARRITECH OPTICS EQUIVALENT	SPECIFICATION
DWDM-XFP-46.12	CT-XFP-DWXX-80	DWDM channel · 80 km
DWDM-XFP-46.92	CT-XFP-DWXX-80	DWDM channel · 80 km
DWDM-XFP-47.72	CT-XFP-DWXX-80	DWDM channel · 80 km
DWDM-XFP-48.51	CT-XFP-DWXX-80	DWDM channel · 80 km
DWDM-XFP-50.12	CT-XFP-DWXX-80	DWDM channel · 80 km
DWDM-XFP-50.92	CT-XFP-DWXX-80	DWDM channel · 80 km
DWDM-XFP-51.72	CT-XFP-DWXX-80	DWDM channel · 80 km
DWDM-XFP-52.52	CT-XFP-DWXX-80	DWDM channel · 80 km
DWDM-XFP-54.13	CT-XFP-DWXX-80	DWDM channel · 80 km
DWDM-XFP-54.94	CT-XFP-DWXX-80	DWDM channel · 80 km
DWDM-XFP-55.75	CT-XFP-DWXX-80	DWDM channel · 80 km
DWDM-XFP-56.55	CT-XFP-DWXX-80	DWDM channel · 80 km
DWDM-XFP-58.17	CT-XFP-DWXX-80	DWDM channel · 80 km
DWDM-XFP-58.98	CT-XFP-DWXX-80	DWDM channel · 80 km
DWDM-XFP-59.79	CT-XFP-DWXX-80	DWDM channel · 80 km
DWDM-XFP-60.61	CT-XFP-DWXX-80	DWDM channel · 80 km
DWDM-XFP-C	CT-XFP-TDWXX-80	DWDM-TUNABLE channel · 80 km

SFP28 — 25G

CISCO PART NUMBER	CARRITECH OPTICS EQUIVALENT	SPECIFICATION
SFP-10/25G-LR-I	CT-SFP28-LR	
SFP-10/25G-LR-S	CT-SFP28-LR	
SFP-10/25G-LR-S=	CT-SFP28-LR	SFP28 · 10KM

SFP28 — 25G (continued)

CISCO PART NUMBER	CARRITECH OPTICS EQUIVALENT	SPECIFICATION
SFP-25G-BX40D-I	CT-SFP28-BX-40D	25GBASE-BR40 · 40 km
SFP-25G-BX40U-I	CT-SFP28-BX-40U	25GBASE-BR40 · 40 km
SFP-25G-ER-I	CT-SFP28-ER	
SFP-25G-ER-I=	CT-SFP28-ER	SFP28 · 40KM
SFP-25G-SR-S	CT-SFP28-SR	
SFP-25G-SR-S=	CT-SFP28-SR	SFP28 · 100M

QSFP+ — 40G

CISCO PART NUMBER	CARRITECH OPTICS EQUIVALENT	SPECIFICATION
QSFP-40G-BD-RX	CT-QSFP+SRBD	40GBASE-SR-BiDi (Rx) · 100/150 m
QSFP-40G-ER4	CT-QSFP+ER4	40GBASE-ER4 with OTU3 data-rate support · 40 km on G.652 SMF
QSFP-40G-LR4	CT-QSFP+LR4	
QSFP-40G-LR4-S	CT-QSFP+LR4	
QSFP-40G-LR4-S=	CT-QSFP+LR4	QSFP+ · 10KM
QSFP-40G-SR-BD	CT-QSFP+SRBD	
QSFP-40G-SR4	CT-QSFP+SR4	
QSFP-40G-SR4-S	CT-QSFP+SR4	
QSFP-40G-SR4-S=	CT-QSFP+SR4	QSFP+ · 100M
QSFP-40G-SRBD	CT-QSFP+SRBD	
QSFP-40GE-LR4	CT-QSFP+LR4	40GBASE-LR4 · 10 km on G.652 SMF

QSFP+ — 40G (continued)

CISCO PART NUMBER	CARRITECH OPTICS EQUIVALENT	SPECIFICATION
WSP-Q40GLR4L	CT-QSFP+LR4	40GBASE-LR4-Lite · 2 km

QSFP28 — 100G

CISCO PART NUMBER	CARRITECH OPTICS EQUIVALENT	SPECIFICATION
Q100-ZR4-S-EA=	CT-QSFP28-ZR4	100G ZR4 (IEEE 802.3bm host interface, 80 km LAN-WDM) · 80 km over G.652 SMF
QSFP-100G-4W40-I	CT-QSFP28-ER4-L	100G 4WDM-40 / ER4 Lite class (4-lane LAN-WDM), industrial temperature · 30 km
QSFP-100G-B20D4-I	CT-QSFP28-BX-20D	100G BiDi 20 km downstream · 20 km
QSFP-100G-B20U4-I	CT-QSFP28-BX-20U	100G BiDi 20 km upstream · 20 km
QSFP-100G-CWDM4-S	CT-QSFP28-CWDM4	
QSFP-100G-CWDM4-S=	CT-QSFP28-CWDM4	QSFP28 · 2KM
QSFP-100G-ER4-LITE	CT-QSFP28-ER4-L	
QSFP-100G-ER4L-S	CT-QSFP28-ER4-L	
QSFP-100G-ERL4	CT-QSFP28-ER4-L	
QSFP-100G-LR-S	CT-QSFP28-LR1	
QSFP-100G-LR1	CT-QSFP28-LR1	
QSFP-100G-LR4-I	CT-QSFP28-LR4	100GBASE-LR4 · 10 km
QSFP-100G-LR4-S	CT-QSFP28-LR4	
QSFP-100G-PSM4	CT-QSFP28-PSM4	
QSFP-100G-PSM4-S	CT-QSFP28-PSM4	

QSFP28 — 100G (continued)

CISCO PART NUMBER	CARRITECH OPTICS EQUIVALENT	SPECIFICATION
QSFP-100G-SM-SR	CT-QSFP28-CWDM4	100G CWDM4-Lite · 2 km
QSFP-100G-SR4-S	CT-QSFP28-SR4	
QSFP-100G-SR4-S=	CT-QSFP28-SR4	QSFP28 · 100M
QSFP-100G-ZR4-S	CT-QSFP28-ZR4	
QSFP28-100G-ZR4	CT-QSFP28-ZR4	

Fibre Channel

CISCO PART NUMBER	CARRITECH OPTICS EQUIVALENT	SPECIFICATION
Cisco 32G FC SW	CT-32G-SFP+SR	SFP+ · 100M
Cisco 32Gb Fibre Channel Shortwave	CT-32G-SFP+SR	SFP+ · 100M
DS-SFP-FC16G-LW	CT-16G-SFP+LR	
DS-SFP-FC16G-LW=	CT-16G-SFP+LR	
DS-SFP-FC16G-SW	CT-16G-SFP+SR	
DS-SFP-FC16G-SW-RF	CT-16G-SFP+SR	SFP+ · 100M
DS-SFP-FC16G-SW=	CT-16G-SFP+SR	SFP+ · 100M
DS-SFP-FC32G-LW	CT-32G-SFP+LR	
DS-SFP-FC32G-LW=	CT-32G-SFP+LR	SFP+ · 10KM
DS-SFP-FC32G-SW	CT-32G-SFP+SR	
DS-SFP-FC32G-SW-RF	CT-32G-SFP+SR	SFP+ · 100M
DS-SFP-FC32G-SW=	CT-32G-SFP+SR	SFP+ · 100M

CFP family — 100G

CISCO PART NUMBER	CARRITECH OPTICS EQUIVALENT	SPECIFICATION
10-2549-02	CT-CFP-LR4	CFP · 10KM
CFP-100G-ER4	CT-CFP-ER4	
CFP-100G-ER4-WS	CT-CFP-ER4	CFP · 40KM
CFP-100G-ER4=	CT-CFP-ER4	CFP · 40KM
CFP-100G-LR4	CT-CFP-LR4	
CFP-100G-LR4=	CT-CFP-LR4	CFP · 10KM
CFP-100G-SR10	CT-CFP-SR4	
CFP2-100G-ER4	CT-CFP2-ER4	
CFP2-100G-ER4=	CT-CFP2-ER4	CFP2 · 40KM
CFP2-100G-LR4	CT-CFP2-LR4	
CFP2-100G-LR4=	CT-CFP2-LR4	CFP2 · 10KM
CFP2-100G-SR10	CT-CFP2-SR4	100GBASE-SR10 · 100/150 m
Cisco 100G CFP ER4 40km	CT-CFP-ER4	CFP · 40KM
Cisco 100GBASE-ER4 CFP	CT-CFP-ER4	CFP · 40KM
Cisco 100GBASE-LR4 CFP	CT-CFP-LR4	CFP · 10KM

QSFP-DD — 200/400G & BiDi

CISCO PART NUMBER	CARRITECH OPTICS EQUIVALENT	SPECIFICATION
QDD-2X100-SR4-S	CT-200G-QDD-2SR4	
QDD-2X100-SR4-S=	CT-200G-QDD-2SR4	QSFP-DD · 100M
QDD-400G-BD	CT-400G-QDD-SR4	400G BiDi · 50/70/100 m
QDD-400G-DR4-S	CT-400G-QDD-DR4	
QDD-400G-ER4-S	CT-400G-QDD-ER4	

QSFP-DD — 200/400G & BiDi (continued)

CISCO PART NUMBER	CARRITECH OPTICS EQUIVALENT	SPECIFICATION
QDD-400G-FR4-S	CT-400G-QDD-FR4	
QDD-400G-FR4-S=	CT-400G-QDD-FR4	QSFP-DD · 2KM
QDD-400G-LR4-S	CT-400G-QDD-LR4	
QDD-400G-LR8-S	CT-400G-QDD-LR8	
QDD-400G-SR4.2-BD	CT-400G-QDD-SR4	
QDD-400G-SR8-S	CT-400G-QDD-SR8	
QSFP-100G-SR1.2	CT-Q40/100-SRBD	100G SR-BiDi · 70/100/150 m
QSFP-40/100-SRBD	CT-Q40/100-SRBD	40/100G SR-BiDi · 70 m OM3 / 100 m OM4
QSFP-DD-400G-LR8	CT-400G-QDD-LR8	400GBASE-LR8 · SM · 10 km

OSFP — 800G

CISCO PART NUMBER	CARRITECH OPTICS EQUIVALENT	SPECIFICATION
DP08SFP8-ZRA-A2	CT-8OSFP-ZR-P	OIF 800ZR coherent DCO, C-band · up to 120 km amplified DWDM
OSFP-2X400G-FR4	CT-8OSFP-FR4	2x 400GBASE-FR4 · 2 km SMF · dual duplex LC
OSFP-800G-DR8	CT-800G-OSFP-DR8	
OSFP-800G-DR8P	CT-800G-OSFP-DR8	800GBASE-DR8 · 500 m
OSFP-800G-VR8	CT-8OSFP-VR8	800GBASE-VR8 · 50 m OM4 · 2x MPO-12
OSFP-800G-VR8P	CT-800G-OSFP-SR8	

Cisco Meraki

CISCO PART NUMBER	CARRITECH OPTICS EQUIVALENT	SPECIFICATION
MA-QSFP-100G-LR4	CT-QSFP28-LR4	100GBASE-LR4 · 10 km SMF
MA-QSFP-100G-SR4	CT-QSFP28-SR4	100GBASE-SR4 · 70-100 m MMF
MA-QSFP-40G-LR4	CT-QSFP+LR4	40GBASE-LR4 · 10 km SMF
MA-QSFP-40G-SR-BD	CT-QSFP+SRBD	40G BiDi · 30-150 m MMF
MA-QSFP-40G-SR4	CT-QSFP+SR4	40GBASE-SR4 · 30-150 m MMF
MA-SFP-10GB-ER	CT-SFP+ER	10GBASE-ER · 40 km SMF
MA-SFP-10GB-LR	CT-SFP+LR	10GBASE-LR · 10 km SMF
MA-SFP-10GB-SR	CT-SFP+SR	10GBASE-SR · 26-400 m MMF
MA-SFP-10GB-ZR	CT-SFP+ZR	10GBASE-ZR · 80 km SMF
MA-SFP-1GB-LX10	CT-SFP-LX	1000BASE-LX10 · 10 km SMF
MA-SFP-1GB-SX	CT-MSFP-SX-1	1000BASE-SX · 220 m OM1 / 550 m OM2 / 1 km OM3
MA-SFP-1GB-TX	CT-SFP-T	1000BASE-T · 100 m Cat5e

Direct attach copper — 10G / 25G

CISCO PART NUMBER	CARRITECH OPTICS EQUIVALENT	SPECIFICATION
MA-CBL-TA-1M	CT-10G-SDAC-1	DAC · 1 m
MA-CBL-TA-3M	CT-10G-SDAC-3	DAC · 3 m
SFP-H10GB-ACU7M	CT-10G-SDAC-7	10GBASE-CU twinax · 7 m
SFP-H10GB-CU1M	CT-10G-SDAC-1	10GBASE-CU twinax · 1 m
SFP-H10GB-CU2M	CT-10G-SDAC-2	10GBASE-CU twinax · 2 m
SFP-H10GB-CU3M	CT-10G-SDAC-3	10GBASE-CU twinax · 3 m
SFP-H10GB-CU4M	CT-10G-SDAC-4	10GBASE-CU twinax · 4 m

Direct attach copper — 10G / 25G (continued)

CISCO PART NUMBER	CARRITECH OPTICS EQUIVALENT	SPECIFICATION
SFP-H10GB-CU5M	CT-10G-SDAC-5	10GBASE-CU twinax · 5 m
SFP-H25G-CU1M	CT-25G-S28DAC-1	25GBASE-CR1 passive copper · 1 m
SFP-H25G-CU2M	CT-25G-S28DAC-2	25GBASE-CR1 passive copper · 2 m
SFP-H25G-CU3M	CT-25G-S28DAC-3	25GBASE-CR1 passive copper · 3 m
SFP-H25G-CU4M	CT-25G-S28DAC-4	25GBASE-CR1 passive copper · 4 m
SFP-H25G-CU5M	CT-25G-S28DAC-5	25GBASE-CR1 passive copper · 5 m

Direct attach copper — 40G / 100G

CISCO PART NUMBER	CARRITECH OPTICS EQUIVALENT	SPECIFICATION
MA-CBL-100G-1M	CT-100G-QDAC-1	DAC · 1 m
MA-CBL-100G-3M	CT-100G-QDAC-3	DAC · 3 m
MA-CBL-40G-1M	CT-40G-QDAC-1	DAC · 1 m
MA-CBL-40G-3M	CT-40G-QDAC-3	DAC · 3 m
QSFP-100G-CU1M	CT-100G-QDAC-1	100G passive copper · 1 m
QSFP-100G-CU2M	CT-100G-QDAC-2	100G passive copper · 2 m
QSFP-100G-CU3M	CT-100G-QDAC-3	100G passive copper · 3 m
QSFP-100G-CU5M	CT-100G-QDAC-5	100G passive copper · 5 m

Direct attach copper — 40G / 100G (continued)

CISCO PART NUMBER	CARRITECH OPTICS EQUIVALENT	SPECIFICATION
QSFP-4SFP10G-CU1M	CT-40G-QDACBO-1	40G to 4x10G copper breakout · 1 m
QSFP-4SFP10G-CU2M	CT-40G-QDACBO-2	40G to 4x10G copper breakout · 2 m
QSFP-4SFP10G-CU3M	CT-40G-QDACBO-3	40G to 4x10G copper breakout · 3 m
QSFP-4SFP10G-CU4M	CT-40G-QDACBO-4	40G to 4x10G copper breakout · 4 m
QSFP-4SFP10G-CU5M	CT-40G-QDACBO-5	40G to 4x10G copper breakout · 5 m
QSFP-4SFP25G-CU1M	CT-100G-QDACBO-1	100G to 4x25G copper breakout · 1 m
QSFP-4SFP25G-CU2M	CT-100G-QDACBO-2	100G to 4x25G copper breakout · 2 m
QSFP-4SFP25G-CU3M	CT-100G-QDACBO-3	100G to 4x25G copper breakout · 3 m
QSFP-4SFP25G-CU5M	CT-100G-QDACBO-5	100G to 4x25G copper breakout · 5 m
QSFP-H40G-ACU7M	CT-40G-QDAC-7	40GBASE-CR4 twinax · 7 m
QSFP-H40G-CU1M	CT-40G-QDAC-1	40GBASE-CR4 twinax · 1 m
QSFP-H40G-CU2M	CT-40G-QDAC-2	40GBASE-CR4 twinax · 2 m
QSFP-H40G-CU3M	CT-40G-QDAC-3	40GBASE-CR4 twinax · 3 m
QSFP-H40G-CU4M	CT-40G-QDAC-4	40GBASE-CR4 twinax · 4 m

Direct attach copper — 40G / 100G (continued)

CISCO PART NUMBER	CARRITECH OPTICS EQUIVALENT	SPECIFICATION
QSFP-H40G-CU5M	CT-40G-QDAC-5	40GBASE-CR4 twinax · 5 m

Direct attach copper — 200G / 400G

CISCO PART NUMBER	CARRITECH OPTICS EQUIVALENT	SPECIFICATION
QDD-400-CU1M	CT-400G-QDDDAC-1	400G passive copper · 1 m
QDD-400-CU2M	CT-400G-QDDDAC-2	400G passive copper · 2 m
QDD-400-CU3M	CT-400G-QDDDAC-3	400G passive copper · 3 m
QSFP-200-CU1M	CT-200G-QDDDAC-1	200G passive copper · 1 m
QSFP-200-CU2M	CT-200G-QDDDAC-2	200G passive copper · 2 m
QSFP-200-CU3M	CT-200G-QDDDAC-3	200G passive copper · 3 m

Active optical cable — 10G / 25G

CISCO PART NUMBER	CARRITECH OPTICS EQUIVALENT	SPECIFICATION
SFP-10G-AOC10M	CT-10G-SAOC-X	10G active optical · 10 m — made to length
SFP-10G-AOC1M	CT-10G-SAOC-1	10G active optical · 1 m
SFP-10G-AOC2M	CT-10G-SAOC-2	10G active optical · 2 m
SFP-10G-AOC3M	CT-10G-SAOC-3	10G active optical · 3 m
SFP-10G-AOC5M	CT-10G-SAOC-5	10G active optical · 5 m
SFP-10G-AOC7M	CT-10G-SAOC-X	10G active optical · 7 m — made to length
SFP-25G-AOC10M	CT-25G-S28AOC-X	25G active optical · 10 m — made to length

Active optical cable — 10G / 25G (continued)

CISCO PART NUMBER	CARRITECH OPTICS EQUIVALENT	SPECIFICATION
SFP-25G-AOC1M	CT-25G-S28AOC-1	25G active optical · 1 m
SFP-25G-AOC2M	CT-25G-S28AOC-2	25G active optical · 2 m
SFP-25G-AOC3M	CT-25G-S28AOC-3	25G active optical · 3 m
SFP-25G-AOC4M	CT-25G-S28AOC-4	25G active optical · 4 m
SFP-25G-AOC5M	CT-25G-S28AOC-5	25G active optical · 5 m
SFP-25G-AOC7M	CT-25G-S28AOC-X	25G active optical · 7 m — made to length

Active optical cable — 40G / 100G

CISCO PART NUMBER	CARRITECH OPTICS EQUIVALENT	SPECIFICATION
QSFP-100G-AOC10M	CT-100G-QAOC-X	100G active optical · 10 m — made to length
QSFP-100G-AOC15M	CT-100G-QAOC-X	100G active optical · 15 m — made to length
QSFP-100G-AOC1M	CT-100G-QAOC-1	100G active optical · 1 m
QSFP-100G-AOC20M	CT-100G-QAOC-X	100G active optical · 20 m — made to length
QSFP-100G-AOC25M	CT-100G-QAOC-X	100G active optical · 25 m — made to length
QSFP-100G-AOC2M	CT-100G-QAOC-2	100G active optical · 2 m
QSFP-100G-AOC30M	CT-100G-QAOC-X	100G active optical · 30 m — made to length
QSFP-100G-AOC3M	CT-100G-QAOC-3	100G active optical · 3 m

Active optical cable — 40G / 100G (continued)

CISCO PART NUMBER	CARRITECH OPTICS EQUIVALENT	SPECIFICATION
QSFP-100G-AOC5M	CT-100G-QAOC-5	100G active optical · 5 m
QSFP-100G-AOC7M	CT-100G-QAOC-X	100G active optical · 7 m — made to length
QSFP-4X10G-AOC10M	CT-40G-QAOCBO-X	40G to 4x10G active optical breakout · 10 m — made to length
QSFP-4X10G-AOC1M	CT-40G-QAOCBO-1	40G to 4x10G active optical breakout · 1 m
QSFP-4X10G-AOC2M	CT-40G-QAOCBO-2	40G to 4x10G active optical breakout · 2 m
QSFP-4X10G-AOC3M	CT-40G-QAOCBO-3	40G to 4x10G active optical breakout · 3 m
QSFP-4X10G-AOC5M	CT-40G-QAOCBO-5	40G to 4x10G active optical breakout · 5 m
QSFP-4X10G-AOC7M	CT-40G-QAOCBO-X	40G to 4x10G active optical breakout · 7 m — made to length
QSFP-H40G-AOC10M	CT-40G-QAOC-X	40G active optical · 10 m — made to length
QSFP-H40G-AOC15M	CT-40G-QAOC-X	40G active optical · 15 m — made to length
QSFP-H40G-AOC1M	CT-40G-QAOC-1	40G active optical · 1 m
QSFP-H40G-AOC20M	CT-40G-QAOC-X	40G active optical · 20 m — made to length

Active optical cable — 40G / 100G (continued)

CISCO PART NUMBER	CARRITECH OPTICS EQUIVALENT	SPECIFICATION
QSFP-H40G-AOC25M	CT-40G-QAOC-X	40G active optical · 25 m — made to length
QSFP-H40G-AOC2M	CT-40G-QAOC-2	40G active optical · 2 m
QSFP-H40G-AOC30M	CT-40G-QAOC-X	40G active optical · 30 m — made to length
QSFP-H40G-AOC3M	CT-40G-QAOC-3	40G active optical · 3 m
QSFP-H40G-AOC5M	CT-40G-QAOC-5	40G active optical · 5 m
QSFP-H40G-AOC7M	CT-40G-QAOC-X	40G active optical · 7 m — made to length

Active optical cable — 400G

CISCO PART NUMBER	CARRITECH OPTICS EQUIVALENT	SPECIFICATION
QDD-400-AOC10M	CT-400G-QDDAOC-X	400G active optical · 10 m — made to length
QDD-400-AOC15M	CT-400G-QDDAOC-X	400G active optical · 15 m — made to length
QDD-400-AOC1M	CT-400G-QDDAOC-1	400G active optical · 1 m
QDD-400-AOC20M	CT-400G-QDDAOC-X	400G active optical · 20 m — made to length
QDD-400-AOC25M	CT-400G-QDDAOC-X	400G active optical · 25 m — made to length
QDD-400-AOC2M	CT-400G-QDDAOC-2	400G active optical · 2 m

Active optical cable — 400G (continued)

CISCO PART NUMBER	CARRITECH OPTICS EQUIVALENT	SPECIFICATION
QDD-400-AOC30M	CT-400G-QDDAOC-X	400G active optical · 30 m — made to length
QDD-400-AOC3M	CT-400G-QDDAOC-3	400G active optical · 3 m
QDD-400-AOC5M	CT-400G-QDDAOC-X	400G active optical · 5 m — made to length
QDD-400-AOC7M	CT-400G-QDDAOC-X	400G active optical · 7 m — made to length

Three ways to get an answer

Check a part number in ten seconds. The compatibility checker is this guide, live — type any OEM part number and it returns the Carritech Optics equivalent with the full specification. No form, no account. It also covers the vendors this guide does not: Juniper, Arista, HPE, Huawei, Nokia, Dell and twenty more.

Compatibility checker

Type or paste any Cisco part number — including ones not in this edition — and get the equivalent, the specification, and whether it is a direct match.

optics.carritech.com/optical-transceivers/compatibility-check/

Quote a whole list

Upload an existing quote, a bill of materials or a parts list — PDF, Excel or CSV — and a person will price it line by line, flagging anything end-of-sale and anything we cannot match.

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Or just ask. Write to sales@carritech.com with the part numbers and the platform they are going into. Coding is per platform, and it is the one detail that decides whether the link comes up.

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