

## LÄNGENTABELLE FÜR LICHTWELLENLEITER

### Übertragungslängen für Glasfaserstrecken nach IEEE 802.3

Kategorie	Farbcode	Wellenlänge					
		Fast Ethernet		Standard	850 nm	1310 nm	1550 nm
		Fasertyp	Optical	single-mode	Fasern		
OS1 / OS2	gelb (YE)	100 Mbit/s	100BASE-FX		10.000 m		
	gelb (YE)	1 Gbit/s	1000BASE-LX		5.000 m		
	gelb (YE)	1 Gbit/s	1000BASE-LX10		10.000 m		
	gelb (YE)	1 Gbit/s	1000BASE-BX10		10.000 m		
	gelb (YE)	1 Gbit/s	1000BASE-EX		40.000 m		
	gelb (YE)	1 Gbit/s	1000BASE-ZX			80.000 m	
	gelb (YE)	1 Gbit/s	1000BASE-EZX			120.000 m	
	gelb (YE)	10 Gbit/s	10GBASE-LR		10.000 m		
	gelb (YE)	10 Gbit/s	1000BASE-ER			40.000 m	
	gelb (YE)	10 Gbit/s	1000BASE-ZR			80.000 m	
	gelb (YE)	40 Gbit/s	40GBASE-FR		2000 m	2.000 m	
	gelb (YE)	40 Gbit/s	40GBASE-LR4		10.000 m		
	gelb (YE)	40 Gbit/s	40GBASE-ER4			40.000 m	
		Fibre Channel		Standard	850 nm	1310 nm	1550 nm
		Fasertyp	Optical	single-mode	Fasern		
OS1 / OS2	gelb (YE)	1 Gbit/s	1 GFC		10.000 m	50.000 m	
	gelb (YE)	2 Gbit/s	2 GFC		10.000 m	50.000 m	
	gelb (YE)	4 Gbit/s	4 GFC		10.000 m	-	
	gelb (YE)	8 Gbit/s	8 GFC		10.000 m	-	
	gelb (YE)	16 Gbit/s	16 GFC		10.000 m	50.000 m	
	gelb (YE)	32 Gbit/s	32 GFC		10.000 m	50.000 m	
		Infini Band		Standard	850 nm	1310 nm	1550 nm
		Fasertyp	Optical	single-mode	Fasern		
OS1 / OS2	gelb (YE)	2 Gbit/s	1X-SDR		10.000.000 m		
	gelb (YE)	4 Gbit/s	1X-DDR		10.000.000 m		

	gelb (YE)	8 Gbit/s	1X-QDR	10.000.000 m		
<b>Fast Ethernet</b>			<b>Standard</b>	850 nm	1310 nm	1550 nm
OM1	<b>Fasertyp</b>		<b>Optical</b>	<b>multi-mode</b>	<b>Fasern</b>	
	orange (OR)	100 Mbit/s	100BASE-SX	300 m		
	orange (OR)	100 Mbit/s	100BASE-FX		2.000 m	
	orange (OR)	1 Gbit/s	1000BASE-SX	300 m		
	orange (OR)	1 Gbit/s	1000BASE-LX		550 m	
	orange (OR)	1 Gbit/s	1000BASE-LX10		550 m	
	orange (OR)	10 Gbit/s	10GBASE-SR	30 m		
orange (OR)	10 Gbit/s	10GBASE-LRM		220 m		
<b>Fibre Channel</b>			<b>Standard</b>	850 nm	1310 nm	1550 nm
OM1	<b>Fasertyp</b>		<b>Optical</b>	<b>multi-mode</b>	<b>Fasern</b>	
	orange (OR)	1 Gbit/s	1 GFC	300 m		
	orange (OR)	2 Gbit/s	2 GFC	150 m		
	orange (OR)	4 Gbit/s	4 GFC	75 m		
	orange (OR)	8 Gbit/s	8 GFC	20 m		
	orange (OR)	16 Gbit/s	16 GFC	15 m		
orange (OR)	32 Gbit/s	32 GFC	-			
<b>Infini Band</b>			<b>Standard</b>	850 nm	1310 nm	1550 nm
OM1	<b>Fasertyp</b>		<b>Optical</b>	<b>multi-mode</b>	<b>Fasern</b>	
	orange (OR)	2 Gbit/s	1X-SDR	125 m		
	orange (OR)	4 Gbit/s	1X-DDR	65 m		
orange (OR)	8 Gbit/s	1X-QDR	33 m			
<b>Fast Ethernet</b>			<b>Standard</b>	850 nm	1310 nm	1550 nm
OM2	<b>Fasertyp</b>		<b>Optical</b>	<b>multi-mode</b>	<b>Fasern</b>	
	orange (OR)	100 Mbit/s	100BASE-SX	300 m		
	orange (OR)	100 Mbit/s	100BASE-FX		2.000 m	
	orange (OR)	1 Gbit/s	1000BASE-SX	500 m		
	orange (OR)	1 Gbit/s	1000BASE-LX		550 m	
	orange (OR)	1 Gbit/s	1000BASE-LX10		550 m	
	orange (OR)	10 Gbit/s	10GBASE-SR	80 m		
orange (OR)	10 Gbit/s	10GBASE-LRM		220 m		

Fibre Channel				Standard	850 nm	1310 nm	1550 nm
OM2	Fasertyp		Optical	multi-mode	Fasern		
	orange (OR)	1 Gbit/s	1 GFC	500 m			
orange (OR)	2 Gbit/s	2 GFC	300 m				
orange (OR)	4 Gbit/s	4 GFC	150 m				
orange (OR)	8 Gbit/s	8 GFC	50 m				
orange (OR)	16 Gbit/s	16 GFC	35 m				
orange (OR)	32 Gbit/s	32 GFC	-				
Infini Band				Standard	850 nm	1310 nm	1550 nm
OM2	Fasertyp		Optical	multi-mode	Fasern		
	orange (OR)	2 Gbit/s	1X-SDR	250 m			
orange (OR)	4 Gbit/s	1X-DDR	125 m				
orange (OR)	8 Gbit/s	1X-QDR	82 m				
Fast Ethernet				Standard	850 nm	1310 nm	1550 nm
OM3	Fasertyp		Optical	multi-mode	Fasern		
	türkis (TQ)	100 Mbit/s	100BASE-SX	300 m			
türkis (TQ)	100 Mbit/s	100BASE-FX			2.000 m		
türkis (TQ)	1 Gbit/s	1000BASE-SX	1.000 m				
türkis (TQ)	1 Gbit/s	1000BASE-LX			550 m		
türkis (TQ)	1 Gbit/s	1000BASE-LX10			550 m		
türkis (TQ)	10 Gbit/s	10GBASE-SR	300 m				
türkis (TQ)	10 Gbit/s	10GBASE-LRM			220 m		
türkis (TQ)	40 Gbit/s	40GBASE-SR4	100 m				
türkis (TQ)	40 Gbit/s	40GBASE-SR2-BiDi	100 m				
türkis (TQ)	100 Gbit/s	100GBASE-SR2	70 m				
türkis (TQ)	100 Gbit/s	100GBASE-SR2-BiDi	70 m				
türkis (TQ)	100 Gbit/s	100GBASE-SR4	70 m				
Fibre Channel				Standard	850 nm	1310 nm	1550 nm
OM3	Fasertyp		Optical	multi-mode	Fasern		
	türkis (TQ)	1 Gbit/s	1 GFC	800 m			
türkis (TQ)	2 Gbit/s	2 GFC	500 m				
türkis (TQ)	4 Gbit/s	4 GFC	380 m				
türkis (TQ)	8 Gbit/s	8 GFC	150 m				
türkis (TQ)	16 Gbit/s	16 GFC	100 m				

	türkis (TQ)	32 Gbit/s	32 GFC	70 m		
<b>Infini Band</b>			<b>Standard</b>	850 nm	1310 nm	1550 nm
OM3	<b>Fasertyp</b>		<b>Optical</b>	<b>multi-mode</b>	<b>Fasern</b>	
	türkis (TQ)	2 Gbit/s	1X-SDR	500 m		
	türkis (TQ)	4 Gbit/s	1X-DDR	200 m		
	türkis (TQ)	8 Gbit/s	1X-QDR	100 m		
<b>Fast Ethernet</b>			<b>Standard</b>	850 nm	1310 nm	1550 nm
OM4	<b>Fasertyp</b>		<b>Optical</b>	<b>multi-mode</b>	<b>Fasern</b>	
	violett (VI)	100 Mbit/s	100BASE-SX	-		
	violett (VI)	100 Mbit/s	100BASE-FX		2.000 m	
	violett (VI)	1 Gbit/s	1000BASE-SX	1.000 m		
	violett (VI)	1 Gbit/s	1000BASE-LX		550 m	
	violett (VI)	1 Gbit/s	1000BASE-LX10		550 m	
	violett (VI)	10 Gbit/s	10GBASE-SR	500 m		
	violett (VI)	10 Gbit/s	10GBASE-LRM		220 m	
	violett (VI)	40 Gbit/s	40GBASE-SR4	125 m		
	violett (VI)	40 Gbit/s	40GBASE-SR2-BiDi	150 m		
	violett (VI)	100 Gbit/s	100GBASE-SR2	100 m		
	violett (VI)	100 Gbit/s	100GBASE-SR2-BiDi	100 m		
	violett (VI)	100 Gbit/s	100GBASE-SR4	100 m		
<b>Fibre Channel</b>			<b>Standard</b>	850 nm	1310 nm	1550 nm
OM4	<b>Fasertyp</b>		<b>Optical</b>	<b>multi-mode</b>	<b>Fasern</b>	
	violett (VI)	1 Gbit/s	1 GFC	-		
	violett (VI)	2 Gbit/s	2 GFC	-		
	violett (VI)	4 Gbit/s	4 GFC	400 m		
	violett (VI)	8 Gbit/s	8 GFC	190 m		
	violett (VI)	16 Gbit/s	16 GFC	125 m		
<b>Infini Band</b>			<b>Standard</b>	850 nm	1310 nm	1550 nm
OM4	<b>Fasertyp</b>		<b>Optical</b>	<b>multi-mode</b>	<b>Fasern</b>	
	violett (VI)	2 Gbit/s	1X-SDR	-		
	violett (VI)	4 Gbit/s	1X-DDR	-		
	violett (VI)	8 Gbit/s	1X-QDR	-		