

# Compact Fiber Node

**LR 54 A/AS local feed**

**LR 55 A/AS remote feed**



Product information



1 GHz

#### Features:

- Compact optical receiver / Transmitter (option)
- All functions controlled via microprocessor
- Upstream transmitter LT4x plugable (option)
- All settings by WISI control unit OK 41A
- Management via HMS (option)
- Fiber management inside

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# Compact Fiber Node

**LR 54 A/AS    local feed**  
**LR 55 A/AS    remote feed**

<b>Downstream incl. receiver module</b>	
Wavelength	1290-1610 nm
Opt.Return loss	≥ 40 dB
Fiber	single mode 9/125 μm
Optical connector	E-2000 (= A) or SC/APC (= AS)
Output impedance	75 Ohm
Output return loss	≥ 20 dB (-1.5 dB / oct.)
Frequency range	47/85-1006 <sup>1)</sup> MHz
Opt. input level	-7 to +3 dBm (with controlled electrical output level)
Controlled output level	112 dBμV (ALC on, 5% OMI)
Attenuator range	0 - 15 dB (step size 0.5 dB)
Equalizer range (each output adjustable)	0 - 15 dB (step size 0.5 dB)
Equivalent noise input	< 5 pA /√Hz
Distorsion products for CENELEC 42 Ch.	110 dBμV (flat) / 113 dBμV (9 dB slope)
CSO, CTB	≥ 60 dB
RF test point	-20 dB
<b>Upstream incl. transmitter module</b>	
Opt. output power	3 dBm
Frequency range	10 - 30/ 65 <sup>1)</sup> MHz
Broad band RF input	10-300 MHz (106 dBμV = 5 % OMI)
Input return loss	≥ 18 dB
RIN	- LT 41/45 - LT 40
	≤ -145 dB/Hz ≤ -135 dB/Hz
Nominal input level	75 dBμV
OMI control range	3 – 8% @ 75 dBμV input (step size 1 %)
ICS	0 / 8 / >45 dB
RF test points laser in	75 dBμV = 5% OMI
Reference pilot	3.16% OMI
<b>General</b>	
RF connectors	PG11
Power supply	LR 54 A/AS: 180 –265 VAC;                      LR 55 A/AS: 27-65 VAC
Lightning protection (power supply / RF inputs)	2 / 6 kV <sup>2)</sup>
Power consumption	17 W only RX, max. 25 W
Remote power current	< 8 A
Ambient temperature	-20°C... +55°C
Storage temperature	-25°C...+75°C
EMC	EN 50083-2
Protection class	IP 66
Dimensions	257 x 215 x 100.3 mm
	<sup>1)</sup> according to diplex filter
	<sup>2)</sup> EN 61000-4-5 1,2 / 50 μs pulse

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## WISI Communications GmbH & Co. KG

Empfangs- und Verteiltechnik  
Wilhelm-Sihn-Straße 5–7  
75223 Niefern-Öschelbronn, Germany

Telefon +49 72 33-66-0    Fax -3 20  
info@wisi.de  
www.wisi.de



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