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Table of acronyms

AC	Active combiner	DMF	Dispersion-managed fiber
AC-RZ	Alternative chirped RZ [format]	DOE	Design of experiment
ADM	Add-drop multiplexing	DOM	Differential operation mode (MZI)
AGE	Automatic gain equalization	DOS	Dispersion over slope ratio
AIS	Alarm indication signal	DPSK	Differential PSK
APC	Automatic power control	DRA	Distributed Raman amplification
APD	Avalanche photodiode	DSCF	Dispersion-slope compensating fiber
APS	Automatic protection switching	DSF	Dispersion-shifted fiber
ASE	Amplified spontaneous emission	DWDM	Dense WDM
AO	Acousto-optic	DXC	Digital cross-connect
AOUK	Alcatel Optronics in UK		
APD	Avalanche photodetector	E-PSBT	Enhanced PSBT [format]
ASE	Amplified spontaneous emission	EAM	Electro-absorption modulator
AS/AC	Active-splitter/active-combiner	EDFA	Erbium-doped fiber amplifiers
ATM	Asynchronous transfer mode	EH	Electro holography
AWG	Arrayed waveguide gratings	EML	Element management layer
		EO	Electro-optic
		ESCON	Enterprise System Connection
BBOR	Black-box optical regeneration		
BCH	Bose, Chaudhuri, Hocquenghem [code]	FEC	Forward error correction
BER	Bit error rate	FET	Field-effect transistor
BL	Bandwidth-limiting [filter]	FHD	Flame hydrolysis deposition
BL-PSBT	Bandwidth-limited PSBT [format]	FIR	Finite impulse response
BoD	Bandwidth on demand [service]	FOM	Figure of merit
BPM	Beam propagation method	FSAN	Full-service access networks
BTC	Block turbo code	FWM	Four wave mixing
C-RZ	Chirped RZ [format]	GFF	Gain-flattening filter
CAPEX	Capital expenditures	GMPLS	Generalized multi-protocol label switching
CD	Chromatic dispersion		
CMOS	Complementary metal-oxide semiconductor	GMRE	GMPLS routing engine
CQE	Cavity quantum electrodynamics	GP-SOA	Gain-clamped SOA
CR	Clock recovery	GVD	Group velocity dispersion
CR-LDP	Constraint-based-routing label-distribution protocol		
CRZ	Chirped return-to-zero [format]	HBT	Heterojunction bipolar transistor
CS-RZ	Carrier-suppressed RZ [format]	HEMT	High electron-mobility transistor
Cw	Continuous wave [operation]	HF	Holey fiber
		HOM	Higher-order mode [fiber]
DBR	Distributed Bragg reflector [laser]	IC	Integrated circuit
DCF	Dispersion-compensating fiber	IETF	Internet engineering task force
DFB	Distributed feedback [laser]	IFBG	In-fiber Bragg grating
DGE	Dynamic gain equalizer	IL	Insertion loss
DGD	Differential group delay	IP	Internet protocol
DM	Dispersion management/managed		

IR	Infra-red	OSPF	Open short path first [service]
ISD	Information spectral density	OTDM	Optical time-domain multiplexing
ILM	Integrated laser modulator	OVD	Outside vapor deposition
IM	Intensity modulation	OXC	Optical cross-connect
IS-IS	Intermediate-system to intermediate-system		
ITU	International Telecom Union	PBC	Polarization beam combiner
		PBG-PCF	Photonic bandgap PCF
LH	Long haul [distance]	PC	Passive combiner
LAN	Local area network	PCE	Power conversion efficiency
LC	Liquid crystal	PCF	Photonic crystal fiber
LMA-HF	Large mode-area HF	PDG	Polarization-dependent gain
LMHF	Large mode-area holey fiber	PDL	Polarization-dependent loss
LMP	Link management protocol	PDW	Polarization dependent wavelength
LSP	Label-switched path	PEVCD	Plasma enhanced vapor deposition
LTG	Low-temperature grown [MQW]	PLC	Planar lightwave circuit
		PM	Phase modulation
M-Z	Mach-Zehnder [interferometer]	PMD	Polarization mode dispersion
MAN	Metropolitan area network	PRBS	Pseudo-random bit sequence
MCVD	Modified chemical vapor deposition	PS/AC	Passive-splitter/active-combiner
MEMS	Micro electro-mechanical systems	PS/PC	Passive-select/passive-combiner
MESFET	Metal-semiconductor FET	PSBT	Phase-shaped binary transmission [format]
MPI	Multi-path interference	PSCF	Pure silica-core fiber
MPLS	Multi-protocol label switching	PSK	Phase-shift keying [format]
MOEM	Micro-opto-electromechanical [switch]		
MOPA	Master-oscillator power amplifier	QBS	Quantum beamsplitter
MQW	Multi quantum well [structure]	QD	Quantum dump
MVOA	MOEM variable optical attenuator	QI	Quadrature of interest
MZI	Mach-Zehnder interferometer	QKD	Quantum key distribution
		QND	Quantum non-demolition
NA	Numerical aperture [fibre]		
NDSF	Non-dispersion-shifted fiber	RDF	Reverse-dispersion fiber
NE	Network element	RF	Radio-frequency [domain]
NF	Noise figure	RFA	Raman fiber amplifier
NF	Narrowband filtering	RHS	Right-hand side
NGC	Net coding gain [FEC]	RIE	Reactive ion etching
NLE	Non-linear effect	RIN	Relative intensity noise
NLS	Nonlinear scattering	ROPA	Remotely-pumped optical amplifier
NLSE	Non-linear Schrödinger equation	RS	Reed-Solomon [code]
NML	Network management layer	RSVP-TE	Resource-reservation protocol for TE
NOLM	Nonlinear optical loop mirror	RZ	Return to zero [format]
NRZ	Non return to zero [format]		
NZDSF	Non-zero-dispersion-shifted fibers	SA	Saturable absorber
		SBS	Stimulated Brillouin scattering
OCDMA	Optical-division multiple access	SDH	Synchronous digital hierarchy
OADM	Optical add-drop multiplexer/multiplexing	SEM	Scanning electron microscope
OCC	Optical communications channel	SHB	Spectral hole burning
OCH-OH	Optical channel overhead	SHT	Shannon-Hartley theorem
OCH-SPRING	OCH shared protection ring	SM	Synchronous modulation
OCR	Optical clock recovery	SMF	(Standard) single-mode fiber
OE	Opto-electronic	SN	Strictly non-blocking [switch]
OEO	OE regeneration and optical onversion	SNCP	Sub-network connection protection
OEO	Opto-electronic-optical [regeneration]	SNR	Signal to noise ratio
OIF	Optical inter-networking forum	SOA	Semiconductor optical amplifier
OLC	Optical low coherence [method]	SOI	Silicon on insulator [technology]
OPEX	Operational expenditures	SONET	Synchronous optical network
OSNR	Optical SNR	SPM	Sel-phase modulation

SSB	Single side-band [modulation]	VAD	Vapor axial deposition
SSFS	Soliton self-frequency shift	VCS	Vertically-coupled switching [element]
		VLH	Very long haul [distance]
TCE	Thermal coefficient of expansion	VOA	Variable/voltage optical attenuator
TCP	Transmission-control protocol	VSF	Vestigial side-band [modulation]
TDCM	Tunable dispersion-compensating module	VSF-RZ	Vestigial side-band RZ [format]
TDM	Time-domain multiplexing		
TE	Traffic engineering	WDM	Wavelength-division Multiplexing
TGEQ	Tunable gain equalizer	WXC	Wavelength cross-connect
TIR-PCF	Total internal reflexion PCF	WCP	Weak coherent pulses
TMN	Transmission management network	WWW	World wide web
TO	Thermo-optic		
TPXC	Transparent photonic cross-connect	XPM	Cross-phase modulation
ULH	Ultra-long haul [distance]	3D-QBS	Three-dimensional QBS
UNI	User network interface	3R	Reamplification, reshaping and retiming [regeneration]
UV	Ultraviolet		