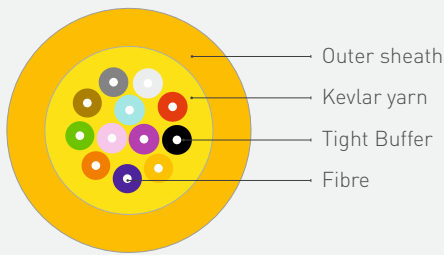
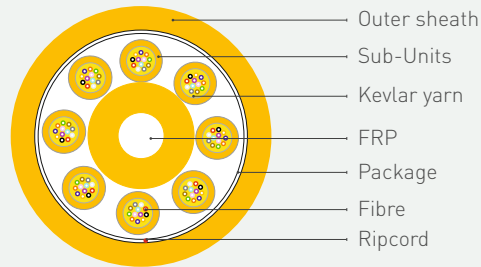


PRE-TERMINATED BREAK OUT PATCH CORD

Norden Pre- Terminated Break Out patch cord comprises tight buffer fibre housed within a common outer jacket in OM1, OM2, OM3, OM4, OS1, OS2 multi-mode and single mode variants. Both ends are terminated with a high-performance hybrid or single type connector consisting of a SC, ST, FC, LC, MTRJ, E2000 connector in simplex and duplex. Using pre-terminated patch cords can simplify the installation process and reduce the need for on-site termination, making them a convenient choice for various networking applications.



4F – 24F Cable Construction



36F – 432F Cable Construction

COMPLIANCE

Telcordia (formerly Bellcore) GR-326-CORE Generic requirements for Single mode optical connectors and Jumper assemblies.

IEC 874-1 Generic specification for fibre optic connectors and cables

ANSI/TIA-568-C.3, ISO/IEC 11801 2nd Ed., CENELEC EN 50173, UL94V-0

KEY FEATURES

ST, SC, FC, LC, MT-RJ, E2000 connectors

Position A/Position B markings

100% factory transmission tested per ANSI/TIA-568-C.3

Slim-profile boots with durable flexible cable strain relief

MECHANICAL & ENVIRONMENTAL CHARACTERISTICS

Range of Mode	Single or Multimode
Connector Style	SC, FC, ST, LC, MTRJ, E2000
Polish or Ferrule Interface Type	PC, UPC, APC
Lengths	Standard & Custom Lengths
Default Breakout Length	0.5m
Strength Member	Kevlar Yarn
Cable Assembly Length (<15 meter Tolerance)	-0/+100mm
Cable Assembly Length (>15 meter Tolerance)	-0/+10%
Durability	500 cycles(0.2 dB max increase), 1000mate/demate cycles
Installation Temperature range	-10°C to +60°C

PRE-TERMINATED BREAK OUT PATCH CORD

MECHANICAL & ENVIRONMENTAL CHARACTERISTICS

Operation and transport temperature		-20°C to +75°C	
Ferrule Concentricity		< 1µm, Other Ferrule Concentricity < 1µm	
Humidity (FOTP-5)		90-95% at 40°C	
Strength of Coupling Mechanism (FOTP-185)		33 N at 0° for 5 sec	
Cable Retention (FOTP-6)		50 N at 0° for 5 sec.	
Twist (FOTP-36)		15 N at 0° 5 turns, 10 cycles	
Flex (FOTP-1)		0.5 Kg at 25 cm, +90° to -90°, 100 cycles	
Central Strength Member Material		FRP	
Subunit Material		LSZH	
Min Bending Radius(mm)		Long term	10D
		Short term	20D
Tensile Strength(N)	4F – 24F	Long term	800
		Short term	1200
	36F – 432F	Long term	500
		Short term	1000
Crush Load (N/100mm)	4F – 24F	Long term	100
		Short term	500
	36F – 432F	Long term	500
		Short term	1500

CABLE CONSTRUCTION DETAILS

4F-24F										
Fibre count (Tight Buffer Construction)	4F	6F	8F	12F	24F					
36F-432F										
Number of fibres	36F	48F	72F	96F	144F	192F	216F	288F	432F	
Number of fibres per tube	12	12	24	24	24	24	24	24	24	
Number of loose tubes	3	4	3	4	6	8	9	12	18	
Number of fillers	1	0	1	0	0	0	3	0	6	
Central Strength Member	Size	1.0mm							1.4mm	
Sub-Units	Diameter	2.9mm								

OPTICAL PERFORMANCE DATA

Item	Single mode			Multimode		
	PC	UPC	APC	62.5/125	50/125	50/125 10G
Insert. Loss/Connector (Single Fibre)	0.2dB Max. (0.15dB typ.)			0.3dB Max. (0.25dB typ.)		
Return Loss	≥45 dB	≥50 dB	≥60 dB	N.A		
Insert. Loss/MTRJ Connector	0.5dB Max. (0.45dB typ.)			0.5dB Max. (0.45dB typ.)		
Pull strength	≥98N	≥98N	≥98N	≥98N		

PRE-TERMINATED BREAK OUT PATCH CORD

OPTICAL CHARACTERISTICS

Fibre Type		Unit	OS1		OS2		OM1		OM2		OM3		OM4	
Condition		nm	1310	1550	1310	1550	850	1300	850	1300	850	1300	850	1300
Attenuation		dB/km	≤0.36	≤0.23	≤0.34	≤0.22	≤3.0	≤1.0	≤3.0	≤1.0	≤3.0	≤1.0	≤3.0	≤1.0
Dispersion	1550nm	Ps(nm*km)	.....		≤18		.....		.....		Dispersion		Dispersion	
	1625nm	Ps(nm*km)	.....		≤22		.....		.....		
Bandwidth	850nm	MHz.KM	.....		.....		≥160		≥400		Bandwidth		Bandwidth	
	1300nm	MHz.KM	.....		.....		≥500		≥800					
Zero dispersion wavelength		nm	1300-1324		≥1302 ≤1322		.....		.....		≥1295 ≤1320		≥1295 ≤1320	
Zero dispersion slope		nm	≤0.092		≤0.091		.....		.....		.....		.....
Attenuation uniformity		dB/km	≤0.01		≤0.01									
Core diameter		um					50+/-1.0		62.5+/-2.5		50+/-1.0		50+/-1.0	
Cladding diameter		um	125.0+/-0.1		125.0+/-0.1		125.0+/-0.1		125.0+/-0.1		125.0+/-0.1		125.0+/-0.1	
Cladding non-circularity		%	≤1.0		≤1.0		≤1.0		≤1.0		≤1.0		≤1.0	
Coating diameter		um	242+/-7		242+/-7		242+/-7		242+/-7		242+/-7		242+/-7	
Coating/chaffinch concentricity error		um	≤12.0		≤12.0		≤12.0		≤12.0		≤12.0		≤12.0	
Coating non circularity		%	≤6.0		≤6.0		≤6.0		≤6.0		≤6.0		≤6.0	
Core/cladding concentricity error		um	≤0.6		≤0.6		≤1.5		≤1.5		≤1.5		≤1.5	
Curl(radius)		um	≤4		≤4									

TERMINATION SPECIFICATIONS

Geometric Specifications	
Radius of Curvature	7-25 mm
Apex Offset	0-50 um
Radial Fibre Height	-50 to +50 nm
Angular Offset	<0.3 degrees
Fibre Roughness	0-25 nm
Ferrule Roughness	0-50 nm
End Face Defects	
Fibre Core	0 nm ²
Mode field diameter	0 nm ²
Ferrule contact zone	0 nm ²
Testing & Inspection	100%
Epoxy	
Temperature Coeff. Tg	120
Curing Method	Out Gassed
Residual Epoxy	No Visible Epoxy Ring
Configuration Control	
Serialization	Each Cable is Serialized



PRE-TERMINATED BREAK OUT PATCH CORD

ORDERING GUIDE

Pre-Terminated Patch Cord	Patch Cord Type	Number of Total Fibre cores	Connector Type	Connector Type Side -A	Polish
NC14	A: Armoured N: Non-Armoured	XXX * In the case of duplex, the number of connectors will be half of the total number of fibre cores.	1: Simplex 2: Duplex	L:LC S:SC F: FC T:ST E: E2000	1: PC 2: UPC 3: APC 4: APC 8°

Connector Type Side -B	Polish	Patch cord overall Dia	Breakout Dia	Outer Jacket	Fibre Type	Length	Colour(XX)
L:LC S:SC F:FC T:ST E: E2000	1: PC 2: UPC 3: APC 4: APC 8°	1: 4F-6F (5.0±0.3mm) 2: 8F (5.5±0.3 mm) 3: 12F (6.3±0.3 mm) 4: 24F (8.3±0.3 mm) 5: 36F-96F (9.0 mm) 6: 144F (12.0 mm) 7: 192F (14.0 mm) 8: 216F-288F (18.0 mm) 9: 432F (20.8 mm)	1: 0.9 mm 2: 2.0 mm	1:PVC 2: LSZH 3: PE 4:OFNR	OS2 : G652.D/G657.A1 7A1:G657.A1 7A2:G657.A2 500:G655 OM2:OM2 OM3:OM3 OM4:OM4 OM5:OM5	XXX	YL:Yellow (SM) AQ:Aqua (OM3) MG:Magenta (OM4) LG: Lime Green (OM5)

Note : Fanout Cable default Breakout Length is 0.5m with equal breakout. If a custom breakout length is required, specify the desired length in the product description.

For Example:

NC14 N 144 2 L 1 L 1 6 1 2 OM3 100 XX

NC14-N1442L1L1612OM3100- AQ : 144 Core (72 Duplex), LC/PC-LC/PC MM OM3, 0.9mm Breakout Dia, 12.0mm Over all Dia , Pre-Terminated 0.5m Breakout Length Patch Cord,LSZH 100 Meter.