

FIBER OPTIC PRODUCTS



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➤ Fiber Optic Patch Cords

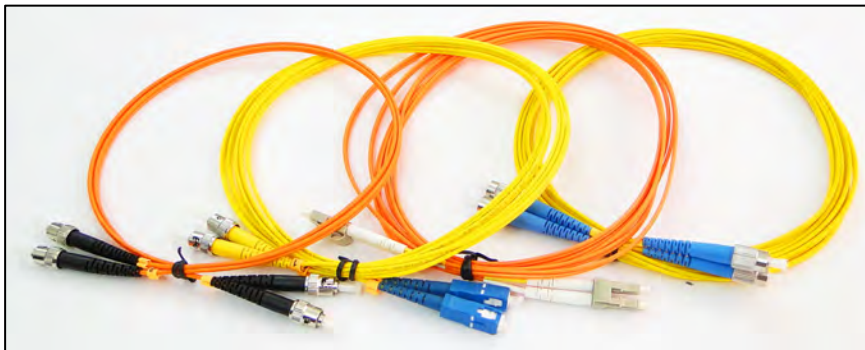
- NetBox fiber optic patch cords & pigtails provide the highest level of connectivity for all your fiber applications.
- Manufactured & tested to the tightest specifications, NetBox patch cords & pigtails exceeds Telcordia GR-326 requirements.
- Our precision zirconia ferrules and environmently rugged connectors and cable assemblies ensure lasting, repeatable connections.

Applications:

- Fast Ethernet, Data communication LAN and WAN
- High-speed Enterprise Servers
- Optical access and ATM Networks Equipment
- Multiplexores, Switches and Routers
- Optical Transport and Telecommunications Switching Equipment

Features:

- Excellent Return Loss
- Low Insertion Loss
- Multimode & Singlemode
- Simplex & Duplex assemblies
- Cable sheath: LSZH standard (PVC on request),
- Telcordia GR-326-CORE Compliant
- IEC-61754-20 Compliant
- RoHS
- SC, FC, ST, LC, MT-RJ, MU & E2000 terminations
- PC End-face polish, (UPC & APC on request)
- 2.0mm Outer Jacket diameter (1.6mm & 3.0mm on request)



Performance Specifications:

	Single mode			Multimode		
Connector type	MTRJ	LC, FC, SC, ST, MU	E2000	MTRJ	LC, FC, SC, ST, MU	E2000
Insertion Loss	0.3dB	0.15dB	0.2dB	0.3dB	0.35dB	0.2dB
Return Loss	-35 to -65dB					
Mating durability (500 cycles)	<0.2dB					
Back reflection (typical)	≤55dB			≤20dB		
Tensile strength	>10Kg					
Operating Temperature: - 40 to + 85°C						

Single mode fiber Characteristics:	
Attenuation	1310nm ≤0.4 dB/km 1550nm ≤0.3 dB/km
Dispersion	1285~1330nm ≤3.5 Ps/nm.km 1550nm ≤18.0 Ps/nm.km
Zero dispersion wavelength	1300~1324 Nm
Zero dispersion slope	≤0.095 Ps/nm.km
Fiber cutoff wavelength	≤1260 Nm
Mode field diameter	8.6±0.5 um
Mode field concentricity	≤0.8 um
Cladding diameter	125±1.0 um
Cladding non-circularity	≤1.0 %
Coating/cladding concentricity error	≤12.5 um
Coating diameter	245±10 um
Bending dependence Induced attenuation(1550 nm)	1 turn, 32mm diameter ≤0.50 db 100 turns, 60mm diameter ≤0.50 db
Proof Test (offline)	≥100 kpsi

Multimode fiber Characteristics:	
Attenuation	850nm ≤3.0 dB/km 1300nm ≤1.0 dB/km
Bandwidth	50/125 um 62.5/125 um 850 nm ≥200 MHz/km 1300 nm ≥200 MHz/km 850 nm ≥160 MHz/km 1300 nm ≥200 MHz/km
Cladding diameter	125±1.0 um
Cladding non-circularity	≤1.0 %
Coating/cladding concentricity error	≤12.5 um
Coating diameter	245±10 um
Bending dependence Induced attenuation	100 turns, 75mm diameter ≤0.50 db at 850 nm\1300 nm
Proof Test (offline)	≥100 kpsi

➤ ST – ST Duplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-001	NB-FOPC-005	NB-FOPC-009
2 M	NB-FOPC-002	NB-FOPC-006	NB-FOPC-010
3 M	NB-FOPC-003	NB-FOPC-007	NB-FOPC-011
5 M	NB-FOPC-004	NB-FOPC-008	NB-FOPC-012
10 M	NB-FOPC-180	NB-FOPC-183	NB-FOPC-186
20 M	NB-FOPC-181	NB-FOPC-184	NB-FOPC-187
30 M	NB-FOPC-182	NB-FOPC-185	NB-FOPC-188
Custom Lengths Available			

➤ ST – SC Duplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-013	NB-FOPC-017	NB-FOPC-021
2 M	NB-FOPC-014	NB-FOPC-018	NB-FOPC-022
3 M	NB-FOPC-015	NB-FOPC-019	NB-FOPC-023
5 M	NB-FOPC-016	NB-FOPC-020	NB-FOPC-024
10 M	NB-FOPC-171	NB-FOPC-191	NB-FOPC-194
20 M	NB-FOPC-189	NB-FOPC-192	NB-FOPC-195
30 M	NB-FOPC-190	NB-FOPC-193	NB-FOPC-196
Custom Lengths Available			

➤ ST – MTRJ Duplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-025	NB-FOPC-028	NB-FOPC-031
2 M	NB-FOPC-026	NB-FOPC-029	NB-FOPC-032
3 M	NB-FOPC-027	NB-FOPC-030	NB-FOPC-033
5 M	NB-FOPC-197	NB-FOPC-205	NB-FOPC-201
10 M	NB-FOPC-198	NB-FOPC-206	NB-FOPC-202
20 M	NB-FOPC-199	NB-FOPC-207	NB-FOPC-203
30 M	NB-FOPC-200	NB-FOPC-208	NB-FOPC-204
Custom Lengths Available			

➤ SC – SC Duplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-034	NB-FOPC-049	NB-FOPC-053
2 M	NB-FOPC-035	NB-FOPC-050	NB-FOPC-054
3 M	NB-FOPC-036	NB-FOPC-051	NB-FOPC-055
5 M	NB-FOPC-037	NB-FOPC-052	NB-FOPC-056
10 M	NB-FOPC-039	NB-FOPC-209	NB-FOPC-058
20 M	NB-FOPC-041	NB-FOPC-210	NB-FOPC-060
30 M	NB-FOPC-042	NB-FOPC-211	NB-FOPC-061
Custom Lengths Available			

➤ SC – MTRJ Duplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-062	NB-FOPC-065	NB-FOPC-068
2 M	NB-FOPC-063	NB-FOPC-066	NB-FOPC-069
3 M	NB-FOPC-064	NB-FOPC-067	NB-FOPC-070
5 M	NB-FOPC-212	NB-FOPC-216	NB-FOPC-220
10 M	NB-FOPC-213	NB-FOPC-217	NB-FOPC-221
20 M	NB-FOPC-214	NB-FOPC-218	NB-FOPC-222
30 M	NB-FOPC-215	NB-FOPC-219	NB-FOPC-223
Custom Lengths Available			

➤ MTRJ – MTRJ Duplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-071	NB-FOPC-076	NB-FOPC-079
2 M	NB-FOPC-072	NB-FOPC-077	NB-FOPC-080
3 M	NB-FOPC-073	NB-FOPC-078	NB-FOPC-081
5 M	NB-FOPC-224	NB-FOPC-226	NB-FOPC-230
10 M	NB-FOPC-074	NB-FOPC-227	NB-FOPC-082
20 M	NB-FOPC-075	NB-FOPC-228	NB-FOPC-083
30 M	NB-FOPC-225	NB-FOPC-229	NB-FOPC-231
Custom Lengths Available			

➤ LC – LC Duplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-232	NB-FOPC-234	NB-FOPC-241
2 M	NB-FOPC-233	NB-FOPC-235	NB-FOPC-242
3 M	NB-FOPC-084	NB-FOPC-236	NB-FOPC-090
5 M	NB-FOPC-085	NB-FOPC-237	NB-FOPC-091
10 M	NB-FOPC-086	NB-FOPC-238	NB-FOPC-092
20 M	NB-FOPC-087	NB-FOPC-239	NB-FOPC-093
30 M	NB-FOPC-088	NB-FOPC-240	NB-FOPC-094
Custom Lengths Available			

➤ LC – SC Duplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-304	NB-FOPC-305	NB-FOPC-312
2 M	NB-FOPC-095	NB-FOPC-306	NB-FOPC-313
3 M	NB-FOPC-096	NB-FOPC-307	NB-FOPC-104
5 M	NB-FOPC-097	NB-FOPC-308	NB-FOPC-105
10 M	NB-FOPC-100	NB-FOPC-309	NB-FOPC-106
20 M	NB-FOPC-101	NB-FOPC-310	NB-FOPC-107
30 M	NB-FOPC-102	NB-FOPC-311	NB-FOPC-108
Custom Lengths Available			

➤ LC – ST Duplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-314	NB-FOPC-316	NB-FOPC-322
2 M	NB-FOPC-315	NB-FOPC-114	NB-FOPC-323
3 M	NB-FOPC-109	NB-FOPC-317	NB-FOPC-115
5 M	NB-FOPC-110	NB-FOPC-318	NB-FOPC-116
10 M	NB-FOPC-111	NB-FOPC-319	NB-FOPC-117
20 M	NB-FOPC-112	NB-FOPC-320	NB-FOPC-118
30 M	NB-FOPC-113	NB-FOPC-321	NB-FOPC-119
Custom Lengths Available			

➤ LC – FC Duplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-324	NB-FOPC-325	NB-FOPC-332
2 M	NB-FOPC-120	NB-FOPC-326	NB-FOPC-126
3 M	NB-FOPC-121	NB-FOPC-327	NB-FOPC-127
5 M	NB-FOPC-122	NB-FOPC-328	NB-FOPC-128
10 M	NB-FOPC-123	NB-FOPC-329	NB-FOPC-129
20 M	NB-FOPC-124	NB-FOPC-330	NB-FOPC-130
30 M	NB-FOPC-125	NB-FOPC-331	NB-FOPC-131
Custom Lengths Available			

➤ LC – MTRJ Duplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-333	NB-FOPC-335	NB-FOPC-342
2 M	NB-FOPC-334	NB-FOPC-336	NB-FOPC-137
3 M	NB-FOPC-132	NB-FOPC-337	NB-FOPC-138
5 M	NB-FOPC-133	NB-FOPC-338	NB-FOPC-139
10 M	NB-FOPC-134	NB-FOPC-339	NB-FOPC-140
20 M	NB-FOPC-135	NB-FOPC-340	NB-FOPC-141
30 M	NB-FOPC-136	NB-FOPC-341	NB-FOPC-142
Custom Lengths Available			

➤ FC - FC Duplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-243	NB-FOPC-245	NB-FOPC-252
2 M	NB-FOPC-244	NB-FOPC-246	NB-FOPC-253
3 M	NB-FOPC-143	NB-FOPC-247	NB-FOPC-151
5 M	NB-FOPC-144	NB-FOPC-248	NB-FOPC-152
10 M	NB-FOPC-147	NB-FOPC-249	NB-FOPC-153
20 M	NB-FOPC-148	NB-FOPC-250	NB-FOPC-154
30 M	NB-FOPC-149	NB-FOPC-251	NB-FOPC-155
Custom Lengths Available			

➤ FC - SC Duplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-254	NB-FOPC-256	NB-FOPC-263
2 M	NB-FOPC-255	NB-FOPC-257	NB-FOPC-264
3 M	NB-FOPC-156	NB-FOPC-258	NB-FOPC-163
5 M	NB-FOPC-157	NB-FOPC-259	NB-FOPC-164
10 M	NB-FOPC-160	NB-FOPC-260	NB-FOPC-165
20 M	NB-FOPC-161	NB-FOPC-261	NB-FOPC-166
30 M	NB-FOPC-162	NB-FOPC-262	NB-FOPC-167
Custom Lengths Available			

➤ FC - MTRJ Duplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-265	NB-FOPC-271	NB-FOPC-278
2 M	NB-FOPC-170	NB-FOPC-272	NB-FOPC-168
3 M	NB-FOPC-266	NB-FOPC-273	NB-FOPC-169
5 M	NB-FOPC-267	NB-FOPC-274	NB-FOPC-279
10 M	NB-FOPC-268	NB-FOPC-275	NB-FOPC-280
20 M	NB-FOPC-269	NB-FOPC-276	NB-FOPC-281
30 M	NB-FOPC-270	NB-FOPC-277	NB-FOPC-282
Custom Lengths Available			

➤ E2000 – E2000 Simplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-283	NB-FOPC-290	NB-FOPC-297
2 M	NB-FOPC-284	NB-FOPC-291	NB-FOPC-298
3 M	NB-FOPC-285	NB-FOPC-292	NB-FOPC-299
5 M	NB-FOPC-286	NB-FOPC-293	NB-FOPC-300
10 M	NB-FOPC-287	NB-FOPC-294	NB-FOPC-301
20 M	NB-FOPC-288	NB-FOPC-295	NB-FOPC-302
30 M	NB-FOPC-289	NB-FOPC-296	NB-FOPC-303
Custom Lengths Available			

➤ FC - ST Duplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-457	NB-FOPC-491	NB-FOPC-461
2 M	NB-FOPC-458	NB-FOPC-492	NB-FOPC-462
3 M	NB-FOPC-459	NB-FOPC-493	NB-FOPC-463
5 M	NB-FOPC-451	NB-FOPC-494	NB-FOPC-464
10 M	NB-FOPC-460	NB-FOPC-495	NB-FOPC-465
20 M	NB-FOPC-424	NB-FOPC-496	NB-FOPC-466
30 M	NB-FOPC-447	NB-FOPC-497	NB-FOPC-467
Custom Lengths Available			

➤ Ruggedized Fiber Optic Patch Cords

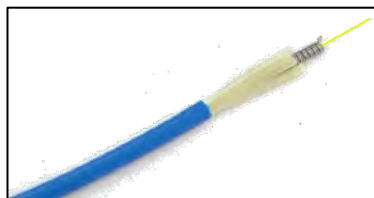
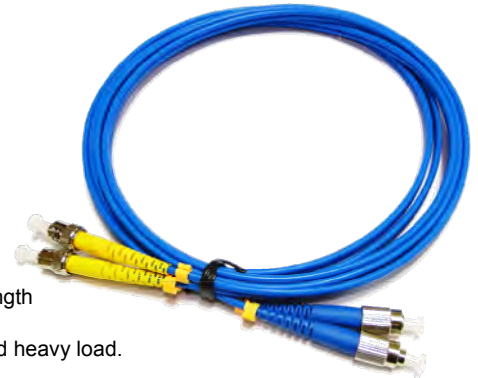
- NetBox fiber optic patch cords & pigtailed provide the highest level of connectivity for all your fiber applications.
- Manufactured & tested to the tightest specifications, NetBox patch cords & pigtailed exceeds Telcordia GR-326 requirements.
- Our precision zirconia ferrules and environmently rugged connectors and cable assemblies ensure lasting, repeatable connections.

Applications:

- FTTH
- Subway
- Temperature detector
- Power plant
- TV antenna
- All applications for which traditional patch-cords are used

Features:

- SUS flexible armored tube keeps the fiber protected from damage
- Resisting the destroy caused by harsh environment & improper operation such as pull strength
- pressing, bending, improper twisting and bite of ants or mice
- Secure transmission power to avoid additional attenuation in case of bending, bundling, and heavy load.
- Easy and quick for replacement, can be handled as an electric wire
- Multimode & Singlemode
- Simplex & Duplex assemblies
- Cable sheath: LSZH standard (PVC on request),
- Telcordia GR-326-CORE Compliant
- RoHS
- SC, FC, ST, LC, MT-RJ, MU & E2000 terminations
- PC End-face polish, (UPC & APC on request)
- 3.0mm Outer Jacket diameter



Performance Specifications:

Performance Specifications:						
	Single mode			Multimode		
Connector type	MTRJ	LC, FC, SC, ST, MU	E2000	MTRJ	LC, FC, SC, ST, MU	E2000
Insertion Loss	0.3dB	0.15dB	0.2dB	0.3dB	0.35dB	0.2dB
Return Loss	-35 to -65dB					
Mating durability (500 cycles)	<0.2dB					
Back reflection (typical)	≤55dB			≤20dB		
Tensile strength	>20Kg					
Operating Temperature: - 40 to + 85°C						

Singlemode fiber Characteristics:

Attenuation	1310nm ≤0.4 dB/km 1550nm ≤0.3 dB/km
Dispersion	1285~1330nm ≤3.5 Ps/nm.km 1550nm ≤18.0 Ps/nm.km
Zero dispersion wavelength	1300~1324 Nm
Zero dispersion slope	≤0.095 Ps/nm.km
Fiber cutoff wavelength	≤1260 Nm
Mode field diameter	8.6±0.5 um
Mode field concentricity	≤0.8 um
Cladding diameter	125±1.0 um
Cladding non-circularity	≤1.0 %
Coating/cladding concentricity error	≤12.5 um
Coating diameter	245±10 um
Bending dependence Induced attenuation(1550 nm)	1 turn, 32mm diameter ≤0.50 db 100 turns, 60mm diameter ≤0.50 db
Proof Test (offline)	≥100 kpsi

Multi mode fiber Characteristics:

Attenuation	850nm ≤3.0 dB/km 1300nm ≤1.0 dB/km
Bandwidth	50/125 um 62.5/125 um 850 nm ≥200 MHz/km 1300 nm ≥200 MHz/km 850 nm ≥160 MHz/km 1300 nm ≥200 MHz/km
Cladding diameter	125±1.0 um
Cladding non-circularity	≤1.0 %
Coating/cladding concentricity error	≤12.5 um
Coating diameter	245±10 um
Bending dependence Induced attenuation	100 turns, 75mm diameter ≤0.50 db at 850 nm\1300 nm
Proof Test (offline)	≥100 kpsi

➤ ST – ST Duplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-001-RGD	NB-FOPC-005-RGD	NB-FO C-009-RGD
2 M	NB-FOPC-002-RGD	NB-FOPC-006-RGD	NB-FOPC-010-RGD
3 M	NB-FOPC-003-RGD	NB-FOPC-007-RGD	NB-FOPC-011-RGD
5 M	NB-FOPC-004-RGD	NB-FOPC-008-RGD	NB-FOPC-012-RGD
10 M	NB-FOPC-180-RGD	NB-FOPC-183-RGD	NB-FOPC-186-RGD
20 M	NB-FOPC-181-RGD	NB-FOPC-184-RGD	NB-FOPC-187-RGD
30 M	NB-FOPC-182-RGD	NB-FOPC-185-RGD	NB-FOPC-188-RGD
Custom Lengths Available			

➤ ST – SC Duplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-013-RGD	NB-FOPC-017-RGD	NB-FOPC-021-RGD
2 M	NB-FOPC-014-RGD	NB-FOPC-018-RGD	NB-FOPC-022-RGD
3 M	NB-FOPC-015-RGD	NB-FOPC-019-RGD	NB-FOPC-023-RGD
5 M	NB-FOPC-016-RGD	NB-FOPC-020-RGD	NB-FOPC-024-RGD
10 M	NB-FOPC-171-RGD	NB-FOPC-191-RGD	NB-FOPC-194-RGD
20 M	NB-FOPC-189-RGD	NB-FOPC-192-RGD	NB-FOPC-195-RGD
30 M	NB-FOPC-190-RGD	NB-FOPC-193-RGD	NB-FOPC-196-RGD
Custom Lengths Available			

➤ ST – MTRJ Duplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-025-RGD	NB-FOPC-028-RGD	NB-FOPC-031-RGD
2 M	NB-FOPC-026-RGD	NB-FOPC-029-RGD	NB-FOPC-032-RGD
3 M	NB-FOPC-027-RGD	NB-FOPC-030-RGD	NB-FOPC-033-RGD
5 M	NB-FOPC-197-RGD	NB-FOPC-205-RGD	NB-FOPC-201-RGD
10 M	NB-FOPC-198-RGD	NB-FOPC-206-RGD	NB-FOPC-202-RGD
20 M	NB-FOPC-199-RGD	NB-FOPC-207-RGD	NB-FOPC-203-RGD
30 M	NB-FOPC-200-RGD	NB-FOPC-208-RGD	NB-FOPC-204-RGD
Custom Lengths Available			

➤ SC – SC Duplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-034-RGD	NB-FOPC-049-RGD	NB-FOPC-053-RGD
2 M	NB-FOPC-035-RGD	NB-FOPC-050-RGD	NB-FOPC-054-RGD
3 M	NB-FOPC-036-RGD	NB-FOPC-051-RGD	NB-FOPC-055-RGD
5 M	NB-FOPC-037-RGD	NB-FOPC-052-RGD	NB-FOPC-056-RGD
10 M	NB-FOPC-039-RGD	NB-FOPC-209-RGD	NB-FOPC-058-RGD
20 M	NB-FOPC-041-RGD	NB-FOPC-210-RGD	NB-FOPC-060-RGD
30 M	NB-FOPC-042-RGD	NB-FOPC-211-RGD	NB-FOPC-061-RGD
Custom Lengths Available			

➤ SC – MTRJ Duplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-062-RGD	NB-FOPC-065-RGD	NB-FOPC-068-RGD
2 M	NB-FOPC-063-RGD	NB-FOPC-066-RGD	NB-FOPC-069-RGD
3 M	NB-FOPC-064-RGD	NB-FOPC-067-RGD	NB-FOPC-070-RGD
5 M	NB-FOPC-212-RGD	NB-FOPC-216-RGD	NB-FOPC-220-RGD
10 M	NB-FOPC-213-RGD	NB-FOPC-217-RGD	NB-FOPC-221-RGD
20 M	NB-FOPC-214-RGD	NB-FOPC-218-RGD	NB-FOPC-222-RGD
30 M	NB-FOPC-215-RGD	NB-FOPC-219-RGD	NB-FOPC-223-RGD
Custom Lengths Available			

➤ MTRJ – MTRJ Duplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-071-RGD	NB-FOPC-076-RGD	NB-FOPC-079-RGD
2 M	NB-FOPC-072-RGD	NB-FOPC-077-RGD	NB-FOPC-080-RGD
3 M	NB-FOPC-073-RGD	NB-FOPC-078-RGD	NB-FOPC-081-RGD
5 M	NB-FOPC-224-RGD	NB-FOPC-226-RGD	NB-FOPC-230-RGD
10 M	NB-FOPC-074-RGD	NB-FOPC-227-RGD	NB-FOPC-082-RGD
20 M	NB-FOPC-075-RGD	NB-FOPC-228-RGD	NB-FOPC-083-RGD
30 M	NB-FOPC-225-RGD	NB-FOPC-229-RGD	NB-FOPC-231-RGD
Custom Lengths Available			

➤ LC – LC Duplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-232-RGD	NB-FOPC-234-RGD	NB-FOPC-241-RGD
2 M	NB-FOPC-233-RGD	NB-FOPC-235-RGD	NB-FOPC-242-RGD
3 M	NB-FOPC-084-RGD	NB-FOPC-236-RGD	NB-FOPC-090-RGD
5 M	NB-FOPC-085-RGD	NB-FOPC-237-RGD	NB-FOPC-091-RGD
10 M	NB-FOPC-086-RGD	NB-FOPC-238-RGD	NB-FOPC-092-RGD
20 M	NB-FOPC-087-RGD	NB-FOPC-239-RGD	NB-FOPC-093-RGD
30 M	NB-FOPC-088-RGD	NB-FOPC-240-RGD	NB-FOPC-094-RGD
Custom Lengths Available			

➤ LC – SC Duplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-304-RGD	NB-FOPC-305-RGD	NB-FOPC-312-RGD
2 M	NB-FOPC-095-RGD	NB-FOPC-306-RGD	NB-FOPC-313-RGD
3 M	NB-FOPC-096-RGD	NB-FOPC-307-RGD	NB-FOPC-104-RGD
5 M	NB-FOPC-097-RGD	NB-FOPC-308-RGD	NB-FOPC-105-RGD
10 M	NB-FOPC-100-RGD	NB-FOPC-309-RGD	NB-FOPC-106-RGD
20 M	NB-FOPC-101-RGD	NB-FOPC-310-RGD	NB-FOPC-107-RGD
30 M	NB-FOPC-102-RGD	NB-FOPC-311-RGD	NB-FOPC-108-RGD
Custom Lengths Available			

➤ LC – ST Duplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-314-RGD	NB-FOPC-316-RGD	NB-FOPC-322-RGD
2 M	NB-FOPC-315-RGD	NB-FOPC-114-RGD	NB-FOPC-323-RGD
3 M	NB-FOPC-109-RGD	NB-FOPC-317-RGD	NB-FOPC-115-RGD
5 M	NB-FOPC-110-RGD	NB-FOPC-318-RGD	NB-FOPC-116-RGD
10 M	NB-FOPC-111-RGD	NB-FOPC-319-RGD	NB-FOPC-117-RGD
20 M	NB-FOPC-112-RGD	NB-FOPC-320-RGD	NB-FOPC-118-RGD
30 M	NB-FOPC-113-RGD	NB-FOPC-321-RGD	NB-FOPC-119-RGD
Custom Lengths Available			

➤ LC – FC Duplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-324-RGD	NB-FOPC-325-RGD	NB-FOPC-332-RGD
2 M	NB-FOPC-120-RGD	NB-FOPC-326-RGD	NB-FOPC-126-RGD
3 M	NB-FOPC-121-RGD	NB-FOPC-327-RGD	NB-FOPC-127-RGD
5 M	NB-FOPC-122-RGD	NB-FOPC-328-RGD	NB-FOPC-128-RGD
10 M	NB-FOPC-123-RGD	NB-FOPC-329-RGD	NB-FOPC-129-RGD
20 M	NB-FOPC-124-RGD	NB-FOPC-330-RGD	NB-FOPC-130-RGD
30 M	NB-FOPC-125-RGD	NB-FOPC-331-RGD	NB-FOPC-131-RGD
Custom Lengths Available			

➤ LC – MTRJ Duplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-333-RGD	NB-FOPC-335-RGD	NB-FOPC-342-RGD
2 M	NB-FOPC-334-RGD	NB-FOPC-336-RGD	NB-FOPC-137-RGD
3 M	NB-FOPC-132-RGD	NB-FOPC-337-RGD	NB-FOPC-138-RGD
5 M	NB-FOPC-133-RGD	NB-FOPC-338-RGD	NB-FOPC-139-RGD
10 M	NB-FOPC-134-RGD	NB-FOPC-339-RGD	NB-FOPC-140-RGD
20 M	NB-FOPC-135-RGD	NB-FOPC-340-RGD	NB-FOPC-141-RGD
30 M	NB-FOPC-136-RGD	NB-FOPC-341-RGD	NB-FOPC-142-RGD
Custom Lengths Available			

➤ FC - FC Duplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-243-RGD	NB-FOPC-245-RGD	NB-FOPC-252-RGD
2 M	NB-FOPC-244-RGD	NB-FOPC-246-RGD	NB-FOPC-253-RGD
3 M	NB-FOPC-143-RGD	NB-FOPC-247-RGD	NB-FOPC-151-RGD
5 M	NB-FOPC-144-RGD	NB-FOPC-248-RGD	NB-FOPC-152-RGD
10 M	NB-FOPC-147-RGD	NB-FOPC-249-RGD	NB-FOPC-153-RGD
20 M	NB-FOPC-148-RGD	NB-FOPC-250-RGD	NB-FOPC-154-RGD
30 M	NB-FOPC-149-RGD	NB-FOPC-251-RGD	NB-FOPC-155-RGD
Custom Lengths Available			

➤ FC - SC Duplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-254-RGD	NB-FOPC-256-RGD	NB-FOPC-263-RGD
2 M	NB-FOPC-255-RGD	NB-FOPC-257-RGD	NB-FOPC-264-RGD
3 M	NB-FOPC-156-RGD	NB-FOPC-258-RGD	NB-FOPC-163-RGD
5 M	NB-FOPC-157-RGD	NB-FOPC-259-RGD	NB-FOPC-164-RGD
10 M	NB-FOPC-160-RGD	NB-FOPC-260-RGD	NB-FOPC-165-RGD
20 M	NB-FOPC-161-RGD	NB-FOPC-261-RGD	NB-FOPC-166-RGD
30 M	NB-FOPC-162-RGD	NB-FOPC-262-RGD	NB-FOPC-167-RGD
Custom Lengths Available			

➤ FC - MTRJ Duplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-265-RGD	NB-FOPC-271-RGD	NB-FOPC-278-RGD
2 M	NB-FOPC-170-RGD	NB-FOPC-272-RGD	NB-FOPC-168-RGD
3 M	NB-FOPC-266-RGD	NB-FOPC-273-RGD	NB-FOPC-169-RGD
5 M	NB-FOPC-267-RGD	NB-FOPC-274-RGD	NB-FOPC-279-RGD
10 M	NB-FOPC-268-RGD	NB-FOPC-275-RGD	NB-FOPC-280-RGD
20 M	NB-FOPC-269-RGD	NB-FOPC-276-RGD	NB-FOPC-281-RGD
30 M	NB-FOPC-270-RGD	NB-FOPC-277-RGD	NB-FOPC-282-RGD
Custom Lengths Available			

➤ E2000 – E2000 Simplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-283-RGD	NB-FOPC-290-RGD	NB-FOPC-297-RGD
2 M	NB-FOPC-284-RGD	NB-FOPC-291-RGD	NB-FOPC-298-RGD
3 M	NB-FOPC-285-RGD	NB-FOPC-292-RGD	NB-FOPC-299-RGD
5 M	NB-FOPC-286-RGD	NB-FOPC-293-RGD	NB-FOPC-300-RGD
10 M	NB-FOPC-287-RGD	NB-FOPC-294-RGD	NB-FOPC-301-RGD
20 M	NB-FOPC-288-RGD	NB-FOPC-295-RGD	NB-FOPC-302-RGD
30 M	NB-FOPC-289-RGD	NB-FOPC-296-RGD	NB-FOPC-303-RGD
Custom Lengths Available			

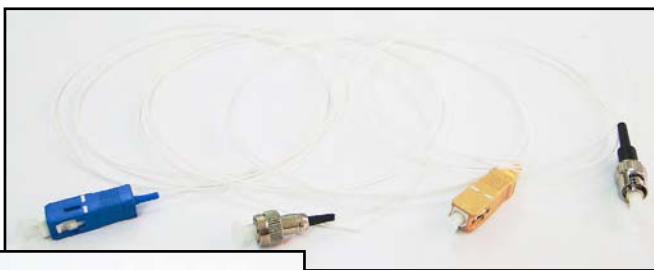
➤ FC - ST Duplex

Length	SM 9um	MM 50um	MM 62.5um
1 M	NB-FOPC-457-RGD	NB-FOPC-491-RGD	NB-FOPC-461-RGD
2 M	NB-FOPC-458-RGD	NB-FOPC-492-RGD	NB-FOPC-462-RGD
3 M	NB-FOPC-459-RGD	NB-FOPC-493-RGD	NB-FOPC-463-RGD
5 M	NB-FOPC-451-RGD	NB-FOPC-494-RGD	NB-FOPC-464-RGD
10 M	NB-FOPC-460-RGD	NB-FOPC-495-RGD	NB-FOPC-465-RGD
20 M	NB-FOPC-424-RGD	NB-FOPC-496-RGD	NB-FOPC-466-RGD
30 M	NB-FOPC-447-RGD	NB-FOPC-497-RGD	NB-FOPC-467-RGD
Custom Lengths Available			

➤ Fiber Optic Pigtaills

Features:

- Excellent Return Loss
- Ultra Low Insertion Loss
- Multimode & Singlemode
- Jacket: LSZH standard
- Telcordia GR-326-CORE Compliant
- IEC-61754-20 Compliant
- RoHS
- SC, FC, ST, LC, MT-RJ, MU & E2000
- PC, UPC & APC
- Outer Jacket Available in 0.9mm, 1.6mm, 2mm & 3mm



Performance Specifications:

	Single mode			Multimode		
Connector type	MTRJ	LC, FC, SC, ST, MU	E2000	MTRJ	LC, FC, SC, ST, MU	E2000
Insertion Loss	0.3dB	0.15dB	0.2dB	0.3dB	0.35dB	0.2dB
Return Loss	-35 to -65dB					
Mating durability (500 cycles)	<0.2dB					
Back reflection (typical)	≤55dB			≤20dB		
Operating Temperature: - 40 to + 85°C						

Singlemode 9/125 Pigtails

Part No.	Description
NB-FOPG-007	SC/PC Simplex 0.9mm, LSZH, 1 Meter
NB-FOPG-022	SC/APC Simplex 0.9mm, LSZH, 1 Meter
NB-FOPG-010	SC/PC Simplex with 3.0mm jacket, LSZH, 3 Meter
NB-FOPG-001	ST/PC Simplex 0.9mm, LSZH, 1 Meter
NB-FOPG-004	ST/PC Simplex with 3.0mm jacket, LSZH, 3 Meter
NB-FOPG-025	LC/PC Simplex 0.9mm, LSZH, 1 Meter
NB-FOPG-032	LC/APC Simplex 0.9mm, LSZH, 1 Meter
NB-FOPG-013	LC/PC Simplex with 2.0mm jacket, LSZH, 3 Meter
NB-FOPG-028	FC/PC Simplex 0.9mm, LSZH, 1 Meter
NB-FOPG-029	FC/APC Simplex 0.9mm, LSZH, 1 Meter
NB-FOPG-030	E2000/PC Simplex with 3.0mm jacket, LSZH, 1 Meter
NB-FOPG-031	E2000/APC Simplex with 3.0mm jacket, LSZH, 1 Meter

MultiMode 62.5/125 Pigtails

Part No.	Description
NB-FOPG-009	SC Simplex 0.9mm, LSZH, 1 Meter
NB-FOPG-012	SC Simplex with 3.0mm jacket, LSZH, 3 Meter
NB-FOPG-003	ST Simplex 0.9mm, LSZH, 1 Meter
NB-FOPG-006	ST Simplex with 3.0mm jacket, LSZH, 3 Meter
NB-FOPG-023	LC Simplex 0.9mm, LSZH, 1 Meter
NB-FOPG-014	LC Simplex with 2.0mm jacket, LSZH, 3 Meter
NB-FOPG-026	FC Simplex 0.9mm, LSZH, 1 Meter

MultiMode 50/125 Pigtails

Part No.	Description
NB-FOPG-008	SC Simplex 0.9mm, LSZH, 1 Meter
NB-FOPG-011	SC Simplex with 3.0mm jacket, LSZH, 3 Meter
NB-FOPG-002	ST Simplex 0.9mm, LSZH, 1 Meter
NB-FOPG-005	ST Simplex with 3.0mm jacket, LSZH, 3 Meter
NB-FOPG-024	LC Simplex 0.9mm, LSZH, 1 Meter
NB-FOPG-027	FC Simplex 0.9mm, LSZH, 1 Meter

➤ 10G (OM3) Multi Mode 50/125 Patch cords & Pigtails

Applications:

- Used in multi-gigabit Ethernet environments to patch and connect cabling systems

Features:

- Provide 10-Gig performance (at 850 nm), up to 300 meters
- Backwards compatible to lower speed applications
- Compatible with 10Mb/100Mb/1Gb/10Gb transceivers
- Compliant with TIA/EIA-568-B.3
- Core: 50 μ m, Cladding: 125 μ m, Buffer: 900 μ m
- Jacket: 2.0mm, LSZH, Aqua fiber optic cable
- Max Attenuation: 2.5 dB/km @ 850 nm, 0.7 dB/km @ 1300 nm
- Bandwidth: 1500/500 MHz/km @ 850/1310 nm
- Effective Bandwidth: 2000 MHz/km @ 850 nm
- Operating Temperature: - 40 to + 85°C



➤ 10-Gigabit LC-SC Duplex, Multi Mode, 50-Micron

1M	2M	3M	5M	10M	20M	30M
NB-FOPC-343	NB-FOPC-344	NB-FOPC-345	NB-FOPC-346	NB-FOPC-347	NB-FOPC-348	NB-FOPC-349

➤ 10-Gigabit SC-SC Duplex, Multi Mode, 50-Micron

1M	2M	3M	5M	10M	20M	30M
NB-FOPC-350	NB-FOPC-351	NB-FOPC-352	NB-FOPC-353	NB-FOPC-354	NB-FOPC-355	NB-FOPC-356

➤ 10-Gigabit LC-LC Duplex , Multi Mode, 50-Micron

1M	2M	3M	5M	10M	20M	30M
NB-FOPC-357	NB-FOPC-358	NB-FOPC-359	NB-FOPC-360	NB-FOPC-361	NB-FOPC-362	NB-FOPC-363

➤ 10-Gigabit LC-ST Duplex, Multi Mode, 50-Micron

1M	2M	3M	5M	10M	20M	30M
NB-FOPC-364	NB-FOPC-365	NB-FOPC-366	NB-FOPC-367	NB-FOPC-368	NB-FOPC-369	NB-FOPC-370

➤ 10-Gigabit ST-ST Duplex, Multi Mode, 50-Micron

1M	2M	3M	5M	10M	20M	30M
NB-FOPC-371	NB-FOPC-372	NB-FOPC-373	NB-FOPC-374	NB-FOPC-375	NB-FOPC-376	NB-FOPC-377

➤ 10-Gigabit SC-ST Duplex, Multi Mode, 50-Micron

1M	2M	3M	5M	10M	20M	30M
NB-FOPC-378	NB-FOPC-379	NB-FOPC-380	NB-FOPC-381	NB-FOPC-382	NB-FOPC-383	NB-FOPC-384

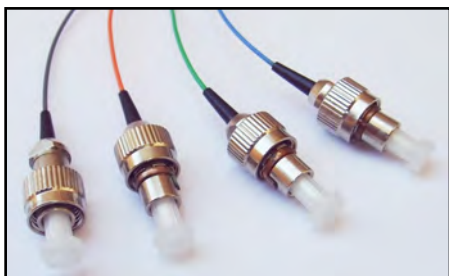
➤ 10-Gigabit Pigtails, Multi Mode, 50-Micron, (0.9mm, LSZH, Aqua color, 1 Mtr)

ST	SC	LC	FC
NB-FOPG-034	NB-FOPG-035	NB-FOPG-036	NB-FOPG-037

➤ Multi-Fiber Distribution & Breakout-Style Cables

Choose Multi-Fiber cables for your network and multi-connection needs

Netbox multi-fiber distribution cable assemblies combine the bandwidth capacity of several individual cable assemblies into a single convenient, easy to use and install assembly. Multi-fiber distribution cable assemblies are traditionally used in backbone, premise distribution, and interconnect applications which require multiple fibers to be routed together from point-to-point. Netbox multi-fiber distribution cables are designed to offer a high degree of flexibility through available features and options, allowing each cable to be manufactured to fit the exact application. Multi-fiber distribution cables are available in single mode, multimode, and laser optimized fiber types, multiple jacket/construction types for different applications, fiber count from 4-48 fibers, SC, LC, ST, FC, and MU connector types, and breakout style/length. Comes with cable braid and pulling eye.



Distribution-Style



Breakout-Style



Cable Braid with Pulling Eye

Performance Specification:

FC, ST, SC, LC, MU	SM	MM
Insertion Loss	<0.3dB	<0.3dB
Return loss	>50dB	>35dB
Mating durability (500 Cycles)	<0.2dB	<0.2dB
Temperature Range(°C)	-40 ~ +85	

Ordering Information:

	A	B	C	D	E	F	G	H	J	K
NB-MF-										

A- Fiber count	B- Fiber Type	C- Cable Length (Mtr)	D- Sheath type	E- Fan-out Length	F- Sub-Unit Style	G- Connector 1	H- End Polish 1	J- Connector 2	K- End Polish 2
XX	X	XXXX	X	XX	X	XX	X	XX	X
04	A= SM 9/125	Example: 0050= 50 Meters	V= PVC	05=0.5 meter	1= 0.9mm	SC	1= MM PC	SC	1= MM PC
06	B= MM 50/125		Z= LSZH	10=1.0 meter	2= 1.6mm	ST	2= SM PC	ST	2= SM PC
08	C= MM 62.5/125		E= PE	12=1.2 meter	3= 2.0mm	FC	3= SM APC	FC	3= SM APC
12	D= MM 50/125 (10 Gig)			15=1.5 meter	4= 3.0mm	LC		LC	
24	F= SM 9/125 (10 Gig)			18=1.8 meter	5= Custom	MU		MU	
48	E= Custom			20=2.0 meter		00= Custom		00= Custom	
				00=Custom					

Part Number Example:

NB-MF-06A0050V101SC2SC2

This represents: Multifiber cable, 6 Single mode 9/125 fiber, 50 Mtrs length, PVC jacket, 1 meter length 0.9mm fan-out, SC/PC to SC/PC