

The tables below describe the standard fibres supplied by Brand-Rex that comply with or exceed ISO/IEC 11801 and EN50173-1 and EN50173-2 requirements, for use in high speed LAN, MAN, WAN data and telecom networks. Specific Fibre Types to customer specification are available on request.

Part Number Identifier	062	050	OM3	OM4	BM3	BM4
IEC 60793-2 Category	10-A1b	10-A1a.1	10-A1a.2	10-A1a.3	10-A1a.2	10-A1a.3
ITU-T Recommendation	n/a	G.651.1	G.651.1	G.651.1	G.651.1	G.651.1
ISO / IEC 11801 Category	OM1	OM2	OM3	OM4	OM3	OM4
<b>Cabled Optical Performance of Fibre</b>						
Attenuation @ 850 / 1300nm (dB/km)	≤ 3.2 / ≤ 0.8	≤ 2.8 / ≤ 0.8	≤ 2.8 / ≤ 0.8	≤ 2.8 / ≤ 0.8	≤ 2.8 / ≤ 0.8	≤ 2.8 / ≤ 0.8
Bandwidth @ 850 / 1300nm (MHz.km)	≥ 200 / ≥ 500	≥ 500 / ≥ 800	≥ 1500 / ≥ 500	≥ 3500 / ≥ 500	≥ 1500 / ≥ 500	≥ 3500 / ≥ 500
EMBc (calculated Effective Modal Bandwidth) @ 850nm (MHz.km)	n/a	n/a	≥ 2000	≥ 4700	≥ 2000	≥ 4700
Numerical Aperture	n/a	n/a	0.200 +/- 0.015	0.200 +/- 0.015	0.200 +/- 0.015	0.200 +/- 0.015
Refractive Index @ 850nm	0.275 +/- 0.015	0.200 +/- 0.015	1.482	1.482	1.482	1.482
Refractive Index @ 1300nm	1.496/1.491	1.482/1.477	1.477	1.477	1.477	1.477
<b>Geometrical Data</b>						
Core Diameter (µm)			50 +/-2	50 +/-2	50 +/-2	50 +/-2
Core / Cladding Concentricity Error (µm)	62.5 +/-2	50 +/-2	≤ 1	≤ 1	≤ 1	≤ 1
Overall Coating Diameter (µm)	n/a	n/a	245 +/-10	245 +/-10	245 +/-10	245 +/-10
Coating Concentricity Error (µm)	≤ 1	≤ 1	≤ 12.5	≤ 12.5	≤ 12.5	≤ 12.5
<b>Mechanical Data</b>						
Proof Test Level	245 +/-10	245 +/-10	≥ 1% ≥ 100kpsi	≥ 1% ≥ 100kpsi	≥ 1% ≥ 100kpsi	≥ 1% ≥ 100kpsi
Macrobend (radius(mm) /turns/loss dB @ 850nm/1300nm)	≥ 1% ≥ 100kpsi n/a	≥ 1% ≥ 100kpsi n/a	37.5/100/0.5/0.5	37.5/100/0.5/0.5	15/2/0.1/0.3 7.5/2/0.2/0.5	15/2/0.1/0.3 7.5/2/0.2/0.5

Part Number Identifier	008	108	208
IEC 60793-2 Category	50-B1.3	50-B6_a	50-B6_a
ITU-T Recommendation	G.652D	G.657.A1	G.657.A2
ISO / IEC 11801 Category	OS1/OS2	OS1/OS2	OS1/OS2
<b>Cabled Optical Performance of Fibre</b>			
Attenuation @ 850 / 1300nm (dB/km)	n/a	n/a	n/a
Bandwidth @ 850 / 1300nm (MHz.km)	n/a	n/a	n/a
Attenuation @ 1310 / 1550nm (dB/km)	≤ 0.38 / ≤ 0.25	≤ 0.38 / ≤ 0.25	≤ 0.38 / ≤ 0.25
Dispersion @ 1310 / 1550nm (ps/nm.km)	≤ 3.5 / ≤ 18	≤ 3.5 / ≤ 18	≤ 3.7 / ≤ 18.5
Numerical Aperture	n/a	n/a	n/a
Refractive Index @ 850 / 1300 nm	n/a	n/a	n/a
Refractive Index @ 1310 / 1550nm	1.467/1.468	1.467/1.468	1.467/1.467
<b>Geometrical Data</b>			
Core Diameter (µm)	n/a	n/a	n/a
Mode Field Diameter (µm)	9.0	9.0	8.8
Core / Cladding Concentricity Error (µm)	≤ 0.6	≤ 0.5	≤ 0.5
Overall Coating Diameter (µm)	245 +/-10	245 +/-10	245 +/-10
Coating Concentricity Error (µm)	≤ 12.5	≤ 12.5	≤ 12.5
<b>Mechanical Data</b>			
Proof Test Level	≥ 1% ≥ 100kpsi	≥ 1% ≥ 100kpsi	≥ 1% ≥ 100kpsi
Macrobend (radius(mm) /turns/loss dB @ 1625nm)	25/100/0.05	15/10/0.25/1.0 10/1/0.75/1.5	15/10/0.03 10/1/0.1/0.2 7.5/1/0.5/1.0