

FTTx: DUAL PURPOSE FIBRE OPTIC DROP CABLE

APPLICATION

- ◆ Self-Supporting All Dielectric
- ◆ Spans up to 50m
- ◆ Access
- ◆ FTTx

DUAL DROP CABLES

CONSTRUCTION

LOOSE TUBE	PC (Polycarbonate) filled with thixotropic gel
FIBRES	Up to 12 colour coated fibres per tube
PERIPHERAL STRENGTH MEMBER	Aramid yarns
SHEATHING	Polyethylene (Black UV resistant sheath is standard)

MECHANICAL PROPERTIES

FIBRE COUNT	NUMBER OF ELEMENTS	CABLE DIAMETER NOMINAL (mm)	CABLE WEIGHT (kg/km)	MAXIMUM INSTALLATION LOAD (N)	OPERATION TEMPERATURE RANGE	BENDING RADIUS		SUITABLE DUCT SIZE
						LONG TERM	SHORT TERM	
Up to 12	1	3.8	12	144	-10°C to 70°C	20 x OD	5 x OD	8/5

SAG AND TENSION CALCULATIONS (Max installation load)

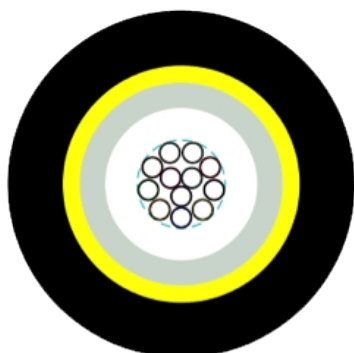
SPAN	50m	NORMAL SAG (m)	0.5
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FIBRE AND BUFFER COLOURS AS TIA/EIA

1	Blue	2	Orange	3	Green	4	Brown	5	Grey	6	White
7	Red	8	Black	9	Yellow	10	Violet	11	Pink	12	Turquoise

ORDERING INFORMATION

FIBRE COUNT	CABLE TYPE	FIBRE TYPE ITU-T	DRUM QUANTITY (m)
12	Dual Drop	G657.A2	1000



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OPTICAL PROPERTIES		
CHARACTERISTICS	ITU-T.657A2	
Modefield Diameter (μm)	1310nm	8.6 ± 0.4
	1550nm	9.6 ± 0.5
Cabled Attenuation (dB/km)	1310nm	± 0.35
	1550nm	± 0.22
Polarization Mode Dispersion (ps/ $\sqrt{\text{km}}$)	Link (PMDQ)	≤ 0.06
	Individual (PMDmax)	≤ 0.2
Chromatic Dispersion (ps/nm.km)	1285-1330nm	3
	1550nm	≤ 18
	1625nm	≤ 23
Macro-Bend Loss	1550nm	$\varnothing 7.5\text{mm}$, 1turn, $\leq 0.4\text{dB}$
	1625nm	$\varnothing 7.5\text{mm}$, 1turn, $\leq 0.8\text{dB}$
Cladding Diameter (μm)		125 ± 0.7
Cladding Non Circulatory (%)		≤ 0.7
Core-Clad Concentricity (μm)		≤ 0.5
Cable Cut-Off Wavelength (nm)		≤ 1260
Local Variations : Cabled (dB)		$\leq 0.1@1550\text{nm}$