

Universal Wind Tower Cable

GWRT

A/I-VQ(ZN)11Y(ZN)11Y



Applications

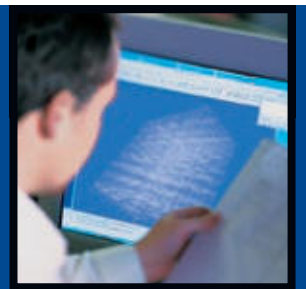
- Flexible cable is suitable for use in Windmill Towers, vertical installation
- Support all computer network applications such as FDDI, Gigabit Ethernet and ATM

Features & Benefits

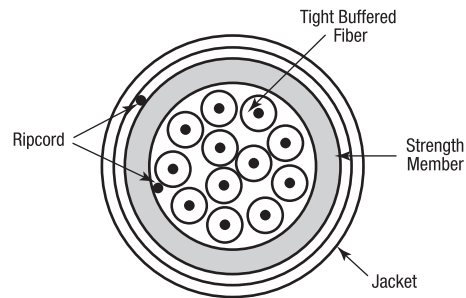
- Available in sizes of 4, 8 and 12 fibers
- 900 µm buffered fiber allows for use of field-installable connectors
- Extremely strong, rugged, survivable tight-buffered cables for harsh environments
- Core-bonded Polyurethane inner and outer jacket provides simple installation
- Glass-rovings between inner and outer jacket for improved mechanical strength and rodent protection
- High abrasion and chemical resistance against oil, acids and alkalis
- Length marking in meters for easy determination of the cable length
- Full dielectric construction, no grounding required

Specifications

IEC 60794-1-2	
Crush Resistance (E3):	50 kN/m
Torsion (E7) -40° Rotation Angle 130°/m; 55 N:	20,000 cycles
Min. Bend Radius: – Dynamic (E6)	15 x Ø
– Cable with flex fiber	8 x Ø
Min. Bend Radius: – Static (E11)	10 x Ø
– Cable with flex fiber	4 x Ø
Repeated bending (E6):	> 500,000
Temperature Range (F1): – Transport/Storage	-70°C to +85°C
– Installation	-5°C to +50°C
– Operation	-55°C to +85°C
Stripping (E5), Tight: – Secondary coating	> 10 cm
– Primary and Secondary	> 10 mm
Min. Bend Radius fibers:	25 mm
– Flex fibers G657A1 (max. increase)	0.75 dB/turn@1550 nm with 10 mm
– Flex fibers G657A2 (max. increase)	0.50 dB/turn@1550 nm with 7.5 mm
– Flex fibers G657B3 (max. increase)	0.15 dB/turn@1550 nm with 5 mm
– Flex fibers OM3 flex, OM4 flex	0.20 dB/turn@850 nm with 7.5 mm
(max. increase)	0.50 dB/turn@1300 nm with 7.5 mm
Other	
Flame Retardant:	IEC 60332-1, FT1, UL 1685
Halogen Free:	IEC 60754-1
Non Corrosive:	IEC 60754-2
Smoke Density:	IEC 61034-2



Cross Section



Characteristics

Tight Buffer	Fiber Count	Diameter (mm)	Weight (kg/km)	Tensile Strength (short term) N	Tensile Strength (permanent) N	Fire Load (kJ/m)
GWRT*04	4	9.2	88	2400	1600	1180
GWRT*08	8	10.0	99	2400	1600	1690
GWRT*12	12	10.5	135	2400	1600	2770

Note: Buffer diameter 0.90 ± 0.05 mm

Ordering Information

Fiber Type/Count	4	8	12	Jacket Color
62.5/125-OM1	GWRT104	GWRT108	GWRT112	Black
50/125-OM2	GWRT204	GWRT208	GWRT212	Black
50/125-OM3	GWRT304	GWRT308	GWRT312	Black
50/125-OM3 Flex	GWRTD04	GWRTD08	GWRTD12	Black
50/125-OM4	GWRT604	GWRT608	GWRT612	Black
50/125-OM4 Flex	GW RTE04	GW RTE08	GW RTE12	Black
9/125 ITU G.657A1	GWRTA04	GWRTA08	GWRTA12	Black
9/125 ITU G.657A2	GWRTF04	GWRTF08	GWRTF12	Black
9/125 ITU G.657B3	GWRTI04	GWRTI08	GWRTI12	Black
Std. plywood reel (non-returnable)	Ø 1000 x 588 mm, Weight 50.0 kg			–
Std. delivery length	2100 ± 100 m			–

Fiber Color Coding

No.		No.		No.	
1	White	5	Green	9	Orange
2	Red	6	Violet	10	Turquoise
3	Blue	7	Brown	11	Pink
4	Yellow	8	Black	12	Grey