

## OUTSIDE PLANT FIBER OPTIC CABLE (OSP TYPE) LOOSE TUBE , SINGLE JACKET ARMORED SINGLE MODE AND MULTIMODE FIBER

### CONSTRUCTION:

**FIBER** GLASS FIBER, COMPRISED OF TRANSMISSION CORE, AND REFLECTIVE CLADDING, IN SINGLE MODE FIBER AND MULTIMODE FIBER. (SEE TABLE BELOW)\*

**LOOSE TUBE** WATER BLOCKED PLASTIC TUBES FOR PROTECTION OF FIBERS. ADDITIONAL EMPTY TUBES OR ROUND FILLERS USED IN LOWER FIBER COUNTS FOR ROUNDNESS OF CABLE CORE.

**CENTRAL FILLER** GLASS EPOXY ROD IN CENTER OF CABLE FOR ROUNDNESS AND STRENGTH.

**OVERALL STRENGTH MEMBER** ARAMID (KEVLAR) FIBER/YARN ON OUTSIDE OF LOOSE TUBE FIBER ASSEMBLY.

**WATER BLOCKED CORE** WATER BLOCKING TAPE OR GEL APPLIED INSIDE ARMOR.

**ARMOR** CORRUGATED STEEL TAPE APPLIED OVER CABLE CORE.

**OUTER JACKET** BLACK UV-RESISTANT POLYETHYLENE (PE).

Charlotte Wire Part#	Number of Fibers	Number and Use of Loose Tubes	Overall Diameter (in.)	Approx. Net Wt. (Lbs/Mft)
CW19160	2	2 Fibers in 1 Tube, 4-5 Additional Empty Tubes/Fillers	.48"	92
CW19161	4	4 Fibers in 1 Tube, 4-5 Additional Empty Tubes/Fillers	.48"	92
CW19162	6	6 Fibers in 1 Tube, 4-5 Additional Empty Tubes/Fillers	.48"	92
CW19163	8	8 Fibers in 1 Tube, 4-5 Additional Empty Tubes/Fillers	.48"	92
CW19164	12	12 Fibers in 1 Tube, 4-5 Additional Empty Tubes/Fillers	.48"	92
CW19165	18	2 (up to 12 Fibers per Tube), 3-4 Additional Empty Tubes/Fillers	.48"	92
CW19166	24	2 (12 Fibers per Tube), 3-4 Additional Empty Tubes/Fillers	.48"	92
CW19167	36	3 (12 Fibers per Tube), 2-3 Additional Empty Tubes/Fillers	.48"	92
CW19168	48	4 (12 Fibers per Tube), 1-2 Additional Empty Tubes/Fillers	.48"	92
CW19169	60	5 (12 Fibers per Tube)	.48"	92
CW19170	72	6 (12 Fibers per Tube)	.51"	110
CW19171	96	8 (12 Fibers per Tube)	.58"	125
CW19172	120	10 (12 Fibers per Tube)	.68"	159
CW19173	144	12 (12 Fibers per Tube)	.72"	185
CW19174	216	18 (12 Fibers per Tube)	.72"	185
CW19175	288	24 (12 Fibers per Tube)	.82"	226

\*Fiber Table - Add corresponding suffix to Charlotte Wire Part Number

Single Mode Fiber (approx. 9µm core)	Add suffix "-SM" to part number.
Multimode Fiber (50µm core)	Add suffix "-50MM" to part number
Multimode Fiber (62.5µm core)	Add suffix "-62MM" to part number

**APPLICATION:** Suitable for interbuilding installation or communications backbones. May be used in aerial or duct installations. Loose tube construction provides good tensile strength and isolation from external forces.

**Standards:**

ICEA S-87-640: Optical Fiber Outside Plant Communication Cable.  
TELECORDIA GR-20