

OUTSIDE PLANT FIBER OPTIC CABLE (OSP TYPE) FIGURE-8 LOOSE TUBE , SINGLE JACKET 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 GEL OR TAPE APPLIED OVER CABLE CORE.

MESSENGER 1/4" 7STRANDED EXTRA HIGH STRENGTH GALVANIZED STEEL MESSENGER IS PLACED NEXT TO THE CABLE CORE.

OVERALL JACKET BLACK POLYETHYLENE (PE) IS EXTRUDED OVER THE CORE AND MESSENGER TO CREATE A "FIGURE-8" CROSS SECTION.

Charlotte Wire Part#	Number of Fibers	Number and Use of Loose Tubes	Cable Diameter (in.)	Cable Height (in.)	Approx. Net Wt. (Lbs/Mft)
CW19180	2	2 Fibers in 1 Tube, 4-5 Additional Empty Tubes/Fillers	.41"	.88"	206
CW19181	4	4 Fibers in 1 Tube, 4-5 Additional Empty Tubes/Fillers	.41"	.88"	206
CW19182	6	6 Fibers in 1 Tube, 4-5 Additional Empty Tubes/Fillers	.41"	.88"	206
CW19183	8	8 Fibers in 1 Tube, 4-5 Additional Empty Tubes/Fillers	.41"	.88"	206
CW19184	12	12 Fibers in 1 Tube, 4-5 Additional Empty Tubes/Fillers	.41"	.88"	206
CW19185	18	2 (up to 12 Fibers per Tube), 3-4 Additional Empty Tubes/Fillers	.41"	.88"	206
CW19186	24	2 (12 Fibers per Tube), 3-4 Additional Empty Tubes/Fillers	.41"	.88"	206
CW19187	36	3 (12 Fibers per Tube), 2-3 Additional Empty Tubes/Fillers	.41"	.88"	206
CW19188	48	4 (12 Fibers per Tube), 1-2 Additional Empty Tubes/Fillers	.41"	.88"	206
CW19189	60	5 (12 Fibers per Tube)	.41"	.88"	206
CW19190	72	6 (12 Fibers per Tube)	.45"	.90"	206
CW19191	96	8 (12 Fibers per Tube)	.52"	.97"	227
CW19192	120	10 (12 Fibers per Tube)	.60"	1.10"	272
CW19193	144	12 (12 Fibers per Tube)	.63"	1.10"	272
CW19194	192	16 (12 Fibers per Tube)	.63"	1.10"	268
CW19195	216	18 (12 Fibers per Tube)	.63"	1.10"	268
CW19196	288	24 (12 Fibers per Tube)	.74"	1.18"	304

***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 in aerial 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