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I N C O R P O R A T E D

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Crossword Puzzles For Fiber Optic Terminology And Basic Facts

This document is a training aid for fiber installers. In addition, it prepares installers for taking the Fiber Optic Association [FOA] Certified Fiber Optic Technician [CFOT] certification examination. This crossword includes the basics of the language of fiber optics and many of the subtleties that one learns from extensive fieldwork.

It is based on Professional Fiber Optic Installation, v.9 [© 2014] and on the latest CFOT certification examination. [Professional Fiber Optic Installation, v.9, The Essentials For Success.](#)

Other texts that have answers are:

[Mastering The OTDR-Trace Acquisition And Analysis,](#)

[Mastering Fiber Optic Connector Installation: A Guide To Low Loss, Low Cost, And High Reliability.](#)

To receive a .pdf with the answers, send an email to the address above. Put "Crossword 2015 Answers" in the subject.

Have fun.

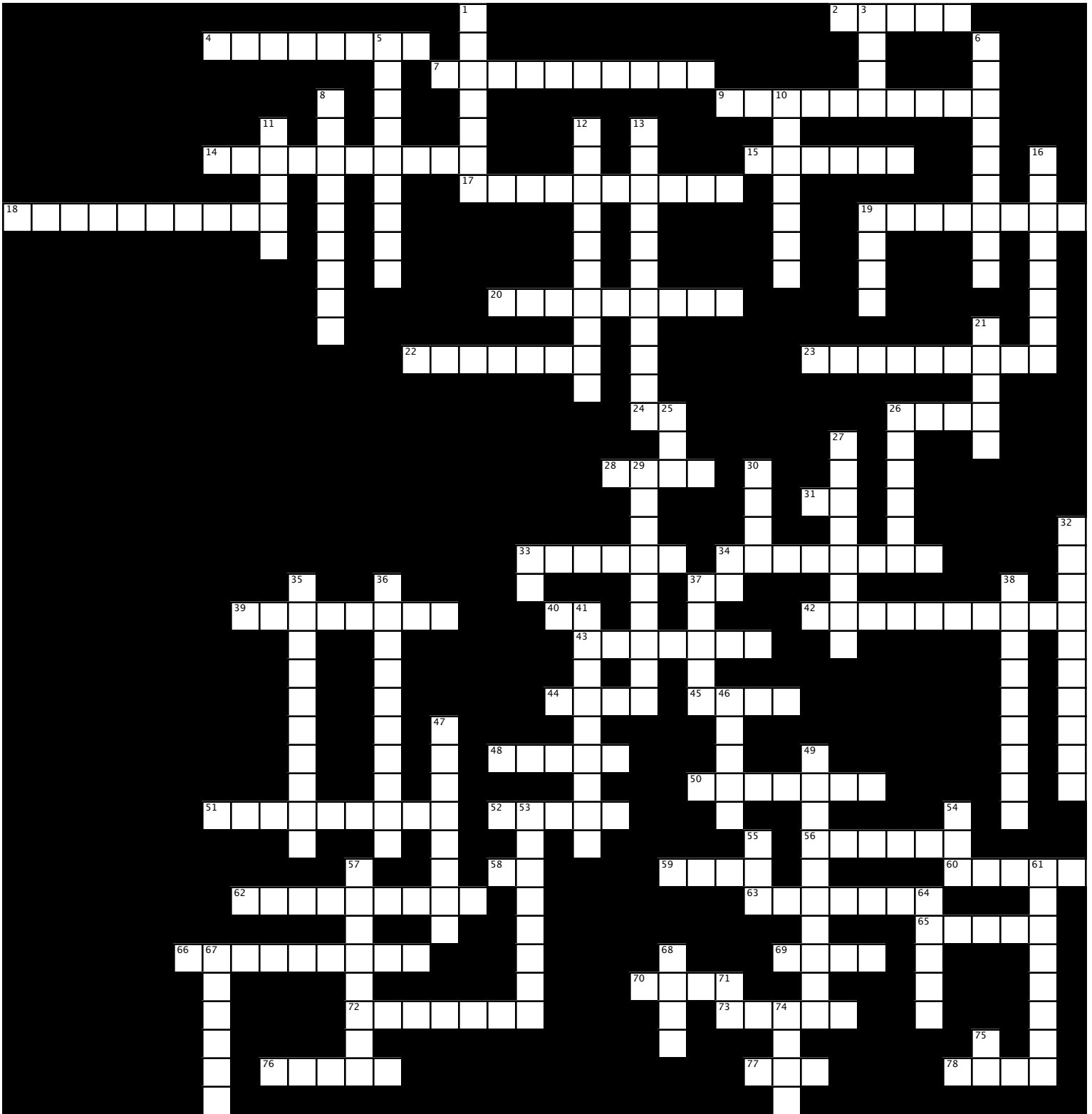
Best Regards,



Eric R. Pearson, CFOS/C/T/S/I
President

Light And Fiber

PROFESSIONAL FIBER OPTIC INSTALLATION, V.9
Chapters 1-3, 15 (© Pearson Technologies Inc.)



Across

2. minimizing _____ is the most important concern of installer (first word)
4. in (14 Across) fibers, some of the optical power travels in the _____
7. 1310 is a _____
9. the technical name for the mechanism describing change in width of optical pulse as pulse travels through fiber
14. telephone systems use _____ fibers
15. unit of fiber (27 Down)
17. one of two mechanisms that reduces (9 Across) in (8 Down) fiber
18. 1550 is a wavelength used on _____ fibers
19. region of fiber that confines light to center of fiber
20. as (7 Across) increases, (13 Down) _____
22. material of first optical fiber developed
23. fiber type in which light can take many paths
24. abbreviation for units of measure for (7 Across)
26. 50 is a _____ diameter
28. acronym for term that indicates capacity of (8 Down) fibers developed
31. during testing, the installer must match the _____ of the fiber under test to that in the test leads
33. first word of old term for the layer that protects fiber
34. in (8 Down) fibers, optical power _____ at (26 Across)- (4 Across) boundary
37. acronym for the second type of (8 Down) fiber developed
39. 125 μ is a _____ (first word)
40. acronym for type of fiber optimized for use with VCSELs
42. first word of term that is a measure of the speed of light in fiber
43. first word in layer that protects fiber
44. the number of causes of (9 Across)
45. first word for first type of fiber with a single composition in core
48. what the installer does to the outer layer of the fiber
50. one of two types of reflections
51. 850 nm is a wavelength used on _____ fibers
52. the type of light source used on (8 Down) fiber for transmission at and above 1 Gbps
56. first word for second type of fiber with multiple compositions in center
58. acronym for the technical term that is created by difference in composition in (68 Down) and (4 Across) of fiber
59. first word for the acronym for the wavelength of maximum capacity
60. largest type of (9 Across)

Down

1. a (14 Across) core is _____ than a (8 Down) core
3. acronym for test equipment that enables viewing the loss of power along a fiber
5. unit in measure for wavelength
6. first word of acronym for term that indicates capacity of (8 Down) fibers developed
8. many data systems use _____ fibers.
10. the second type of (14 Across) fiber developed was dispersion _____
11. second word of term indicating speed of light in fiber
12. excessive (9 Across) results in signal _____
13. term that describes the loss of power in fiber
16. not (14 Across), but another name for fiber in which light travels in a single path
19. acronym indicating 3-16 wavelengths traveling in fiber
21. the capacity of (8 Down) fibers is _____ than that of (14 Across) fibers.
25. acronym for region of fiber with small core in which most of optical power travels
26. (33 Down) fibers _____ be used as test leads
27. 125 μ is a _____ (second word)
29. technical name for optical fiber
30. (46 Down) reflection occurs at _____ boundary (first word)
32. third word for the acronym for the wavelength of maximum capacity
33. acronym for fiber with reduced sensitivity to power loss when bent
34. abbreviation for term that indicates speed of light in fiber
35. determines both (9 Across) and (13 Down)
36. second word for the acronym for the wavelength of maximum capacity
37. material of most fibers
38. fibers are designated by at least two _____
41. second word indicating type of fiber optimized for use with VCSEL
46. second type of reflection
47. type of (9 Across) that results from non crystalline or amorphous structure of fiber material
49. fiber type in which light takes a single path
53. (46 Down) reflection occurs at _____ boundary (second word)
54. acronym indicating two wavelengths traveling in fiber
55. acronym for first fiber developed
57. first word of the characteristic of fiber that is created by the difference in composition in (4 Across) and (68 Down) of fiber

Across

62. first word for technical term that is created by the difference between the compositions of (4 Across) and (68 Down) of fiber
63. technical name for (50 Across) reflection
65. second word of fiber term that is created by difference in composition in the (4 Across) and (68 Down) of fiber
66. second largest type of (9 Across) that results from a characteristic of the transmitter
69. region of fiber in which most of light energy travels
70. minimizing _____ is most important concern of installer (second word)
72. second word in layer that protects fiber
73. second word for first type of fiber with single composition in core
76. second word of the region of fiber with small core in which most of the optical power travels
77. acronym for the wavelength of maximum capacity
78. first word of acronym for region of fiber with small core in which most of the optical power travels

Down

61. second word for technical term that is created by difference in composition in center and second layer of fiber
64. first word indicating type of fiber optimized for use with VCSEL
67. OM3 and OM4 have _____ bandwidth or capacity than OM1 and OM2
68. during testing, the installer must match the _____ of the fiber under test to that in the test leads
71. acronym for first type of fiber developed
74. acronym indicating up to 200 wavelengths traveling in fiber
75. OM3 and OM4 are _____ fibers.